

The Monthly Publication of **NAUG: The National AppleWorks Users Group**

Volume VI, No. 8

Five Dollars

TABLE OF CONTENTS

From the Editors	2	Word Processor Tips	17
• NAUG celebrates an anniversary.		• More envelope tips.	
Letters to NAUG	2	Inside AppleWorks	19
• How to solve clock card problems.		• Understanding SEG.PR – Part 1.	
• Solutions to ImageWriter problems.		• AppleWorks resets your printer.	
• Can repairs cause a problem?		Special Offers	22
• More ImageWriter solutions.		• Special offers from ActaSoft and inCider.	
• Checkbook for AppleWorks 1.x or 2.x.		My Favorite Macro	24
• How to delete Return “blots”.		• A two-file switcher.	
Data Base Tip	5	AppleWorks News	27
• How to produce attractive data base reports.		• News and special offers from Data Base User Group, FantasyWorks, JEM Software, Macmillan Publishing, OmniShore, and Timeworks.	
Hardware Review	8	Public Domain Updates	30
• Epson EPL-7000: Laser output on a budget.		• Five new disks in NAUG's Public Domain Library.	
• EPL-7000 settings that work.		Corrections	31
From the Editor	12	NAUG News	32
• How to avoid problems patching AppleWorks.		• Beagle Buddy update.	
AppleWorks News	12	General Interest	33
• News from Apple Computer, Beagle Bros, and Black Box Corporation.		• Apple II vendors list update.	
Spreadsheet Tip	13	Members Helping Members	34
• How to accumulate data in a cell.		• Help with AppleWorks utilities.	
My Favorite Template	14		
• A shopping list template saves time.			

Support for AppleWorks and ///EZ Pieces Users

Happy Anniversary

This is the beginning of NAUG's sixth year of monthly publication of the *AppleWorks Forum*. It is a time for celebration, reflection, and thanks.

We celebrate the continued success of our members and of AppleWorks. The program's flexibility, power, and ease of use continues to meet the growing needs of tens of thousands of users who understand the power of AppleWorks and its enhancements.

We reflect upon the successful year for AppleWorks users. During the past 12 months, NAUG announced the availability of 40 new AppleWorks and Apple II enhancements, including such significant products as Outliner and InWords. And NAUG published 1040Works, the most popular tax package for the Apple II computer.

But most of all, we thank you for contributing so much to this successful year for NAUG. During the past year you sent us more than 200 articles, tips, hints, and ideas for the *AppleWorks Forum*. You sent us 86 new disks for our Public Domain Library; disks filled with AppleWorks templates and utility programs created by our members. And we appreciate your hundreds of letters of encouragement and support.

We hope this year was personally and professionally rewarding for you. We wish you, our members, a happy anniversary.

Forum

Editor: Cathleen Merritt
Associate Editor: Warren Williams
Page Layout: Nanette Luoma

Publisher: The National AppleWorks Users Group

©COPYRIGHT 1991, by NAUG, The National AppleWorks Users Group, for the exclusive use and enjoyment of its members. Any reprint or reproduction must be approved in writing and in advance by NAUG.

The "AppleWorks Forum" (ISSN 0893-4118) is published monthly for \$31 per year by the National AppleWorks Users Group, 49068 Harvest Dr., Plymouth, MI 48170.

Second Class postage paid at Plymouth, MI, and additional mailing offices.

POSTMASTER: Send address changes to AppleWorks Forum, NAUG, Box 87453, Canton, MI 48187

Solving Clock Card Problems

Dear Cathleen,

I use an Applied Engineering Z-RAM Ultra III memory board that adds both one-megabyte of memory and a clock to my Apple IIc. I've had the board for about four years and enjoy this hardware combination.

NAUG members who use the Z-RAM Ultra III and other clock cards should remember that these cards include a battery which keeps the clock running when your computer is off. All batteries eventually fail, as I discovered when I started to get error messages when booting my system.

While you are waiting for a new battery, you can use your system by renaming the clock driver program on your boot disk. Boot up Copy II+ or any file utility program and change the name of the "clock" file on your boot disk so it does not include the characters ".SYSTEM". Then change the name back after you install the new battery.

Harold Miller
Ozone Park, New York

[Ed: Our Apple II computers are getting older and I suggest that all users keep a backup battery for their clock card or IIGS system.]

New batteries for the Z-RAM Ultra III cost \$10 plus \$3 s/h from Applied Engineering [call (214) 241-6060 and ask for the "Order Department"]. Installation requires some soldering.

Owners of ROM 01 Apple IIGS systems should order a spare battery. I recommend the Slide-On Battery which costs \$14.95 plus \$3 s/h (\$6 foreign shipping) from Nite Owl Productions, 5734 Lamar Drive, Mission, Kansas 66202; (913) 362-9898. The Slide-On comes with complete instructions and does not require soldering.]

The **National AppleWorks Users Group (NAUG)** is an association that supports AppleWorks users. NAUG provides technical support and information about AppleWorks and enhancements to that program. Our primary means of communicating with members is through the monthly newsletter entitled the **AppleWorks Forum**.

Resolving ImageWriter Problems

Dear NAUG:

My ImageWriter printer occasionally skips some lines at the top of the second page of a document. Sometimes I get the one-inch top margin I expect on that page. But other times I get a two-inch or even three-inch top margin. This problem just occurs on the second page of a document. The first, third, and all following pages print correctly. Is there something wrong with my printer?

Lollie Foss
Darien, Connecticut

[Ed: Like many AppleWorks operations, the process of finding the top of the second page of a document is more complex than it looks. Here is a schematic presentation of the process:

Both the ImageWriter printer and AppleWorks count how many inches you print on a page. (The ImageWriter needs this information so it "knows" how many inches it must skip to get to the top of the next page. AppleWorks has to "know" when to tell the printer to skip to the next page.)

Every time you print a new line, AppleWorks checks if the line fits on the current page. If it fits, AppleWorks keeps printing. If it does not fit, AppleWorks looks in the SEG.ER file to see if your printer accepts a Top of Page Command. If it accepts that command (and the ImageWriter does), it signals your printer to skip to the next page. The ImageWriter checks how far it has printed on the current page and rolls the platen the distance it needs to get to the top of the next page.

There are two problems with this system. First, neither AppleWorks nor the ImageWriter keep track of any manual movements you make to the platen. Thus, moving the platen knob confuses both the printer and AppleWorks. That causes problems with your page breaks.

Second, your ImageWriter is pre-set to think that all paper you put in the printer is 11-inches long. Each time AppleWorks sends the ImageWriter a Top of Page Command, the printer skips to the top of the next 11-inch-long page. If you put 11-inch paper in the printer, everything works fine. But if

you use continuous feed postcards, library cards, or any other size paper, the printer skips over a number of cards when AppleWorks calls for the next page.

*Although most printers accept Top of Page Commands, you should tell AppleWorks that your printer does **not** recognize this command. Then AppleWorks will look at the Page Length setting to determine the length of each page and will tell the printer how to find the top of the next page.*

To summarize: (1) Do not turn the platen knob after you turn on the printer. (2) Set AppleWorks so the Accepts Top of Page Command is set to "No" for all your printers.]

Can Repairs Cause a Problem?

Dear Cathleen,

I recently had my Apple IIe repaired and I'm now experiencing a problem with AppleWorks that I did not encounter earlier. When I edit a paragraph, single letters or cluster of letters sometimes disappear from the end of the document. What is going wrong?

Doak Cox
Honolulu, Hawaii

[Ed: It's relatively easy to determine whether you have a hardware or software problem. Just boot your system with a fresh copy of AppleWorks. If the problem disappears, you usually have a bad working copy of the program; make a new copy from your original disks and test your system again. If the problems persists, you probably have a hardware problem; it is time to visit your local computer repair shop.

AppleWorks uses areas of memory not used by most programs. As a result, AppleWorks reveals hardware problems that are not evident when you run less hardware-intensive programs.

Mr. Cox, if I had to guess, I think you still have a hardware problem with your system.]

More ImageWriter Solutions

Dear Cathleen,

Most of the time, my ImageWriter II printer works properly. But occasionally the printer skips about six lines in the middle of a page. Is this a common problem?

Eric Steinert
North Massapequa, New York

[Ed: Your skipped lines are probably caused by the ImageWriter trying to skip over the perforations that occur between pages. I think someone configured your printer to skip those perforations by changing the DIP switch settings either inside the ImageWriter and/or on your printer interface card.

The fifth switch on the left-hand DIP switch inside the ImageWriter should be set to the up (or "open") position. The correct switch settings for the ImageWriter II are as follows:

Switch 1: Up, Up, Up, Up, Up, Down, Up, Up

Switch 2: Down, Down, Up, Up, Down, Up

To set the switches, turn off the printer, remove the cover so you can see the print head, and push the print head to the right. The DIP switches are in the lower left-hand corner of your viewable area. The easiest way to move a switch is to use a retractable ball point pen with the point retracted.

AppleWorks assumes that all printer and printer interface cards are set so the "skip perforations" option is set to "Off" or "No".]

Checkbook for AppleWorks 1.x or 2.x

Dear NAUG,

Thanks for publishing Irving Tessel's checkbook spreadsheet in last month's issue of the **AppleWorks Forum**. But how can I adjust the formulas so they work with AppleWorks 2.1?

Norelyn Esguerra
Bayana, Phillipines

[Ed: To use Mr. Tessel's checkbook with earlier versions of AppleWorks you must adjust the formu-

las in columns K, O, Q, and S. Make the following changes:

- 1. Change the formula in step #14 to @SUM(K9+C10-I10) . Then use the Apple-L command to format this cell so all values appear in Fixed format with zero decimal places.*
- 2. Change the formula in step #16 to @IF(G10>0, G10, 0) .*
- 3. Change the formula in step #17 to @IF(O10>0, I10, 0) .*
- 4. Change the formula in step #18 to @IF(M10=1, 0, @IF(C10>0, C10, 0)) .]*

How to Delete Return "Blots"

Dear Cathleen,

The November 1990 issue of the **AppleWorks Forum** describes how to delete unwanted Return characters from the middle of a paragraph. Unfortunately, none of those techniques worked on my RamWorks III-enhanced Apple IIe.

Here's the procedure I use to delete the unwanted Returns:

- 1. Issue an Apple-Z command to display the Return "blots" on the screen.*
- 2. Put the cursor on the unwanted "blot".*
- 3. Issue an Apple-D command and press the Return Key.*

Alfred Barnard
Reston, Virginia

[Ed: Thanks for describing your cure for the unwanted Return character, Mr. Barnard.

Fortunately, the problem you describe only occurs on Apple IIe and IIc computers equipped with auxiliary slot memory expansion cards such as the RamWorks and Z-RAM cards. Thus, it seems that the problem is in the memory management routines in the new SEG.AM file. While your approach doesn't fix the cause of the problem, it offers users an excellent work-around when the unwanted characters appear in the file.]

How to Produce Attractive Data Base Reports

by Warren Williams and Mitchell Bernstein

The AppleWorks data base module is flexible and powerful, but has limited reporting capability. Although AppleWorks lets you select, sort, and print data from any record in any order you specify, the program offers only minimal formatting capabilities. More specifically, the AppleWorks data base module will not let you use boldface, underlining, centering, headers, footers, or any of the other formatting commands available in AppleWorks' word processor module.

Here is a work-around that uses AppleWorks' Mail Merge clipboard and word processor module to overcome those limitations. These procedures let you produce heavily formatted tables format reports like the example in *Figure 1*.

Follow these steps:

1. Prepare the tables report format in the data base module as follows:

- A. Select the categories that will appear in the report. (You can include an unlimited number of categories in the report, but the last category must start before the 79th character on the line.)
- B. Use the Apple-R command to select the records you want to include in the report.

- C. Use the Apple-A command to arrange the records that will print in the report.

- D. Set the "Print report header at the top of each page" to "No".

2. "Print" the report "To the clipboard (for Mail Merge)".

Figure 1: Data Base Report Produced with Mail Merge

Header	<u>Telephone List</u>	
	Effective 8/1/91	
Data from Clipboard	The following is an alphabetical list of companies and their toll free telephone numbers in effect August 1, 1991:	
Footer	Company	Toll Free Number
	=====	=====
	Computer Buyer's Guide	(800) 366-0676
	Dove Enterprises	(800) 233-3683
	Exposition Management	(800) 262-3378
	Federal Express	(800) 238-5355
	Hewlett-Packard	(800) 752-0900
	IME Computers	(800) 999-1911
	Impact Printhead Service Co.	(800) 777-4323
	Sequential Systems	(800) 999-1717
	Seven Hills Software	(800) 627-3836
	Supra Corporation	(800) 727-8772
	TBS Marketing Corporation	(800) 747-7483
	Telenet Corporation	(800) 835-3639
	Victory Enterprises	(800) 421-0103
	Zoom Telephonics	(800) 666-6191
	-- A service of the National AppleWorks Users Group --	

Figure 2: Word Processor Report Format

```
File: ADDRESS.F1          REVIEW/ADD/CHANGE          Escape: Main Menu
=====
-----Chars per Inch: 12 chars
-----Page Header
-----Centered

                ^^Telephone List^^
                Effective 8/1/91

-----Unjustified
The following is an alphabetical list of companies and their toll free
telephone numbers in effect August 1, 1991:

Company^                Toll Free Number
=====                =====
-----Page Header End
-----Page Footer
-----Centered
    ^-- A service of the National AppleWorks Users Group. --^
-----Unjustified
-----Page Footer End
Computer Buyer's Guide      (800) 366-0676
Dove Enterprises            (800) 233-3683
Exposition Management       (800) 262-3378
Federal Express            (800) 238-5355
Hewlett-Packard            (800) 752-0900
IME Computers              (800) 999-1911
Impact Printhead Service Co. (800) 007-4323
Sequential Systems         (800) 999-1717
Seven Hills Software       (800) 627-3836
Supra Corporation          (800) 727-8772
TBS Marketing Corporation   (800) 747-7483
Telenet Corporation        (800) 835-3639
Victory Enterprises        (800) 421-0103
Zoom Telephonics          (800) 666-6191
-----
Type entry or use ⌘ commands          Line 2 Column 1          326K Avail.
```

3. Create a new word processor document and indicate that you want to include a header. Type the following into the header:

- A. Enter the first lines you want to print at the top of every page. You can use any of AppleWorks' formatting commands including centering, boldface, or any of the special codes you enter into the program.
- B. Create a new tab ruler and set a left tab at the beginning of each column.
- C. Type the headings you want at the top of each column. You can use the Underline Begin/End Commands or you can type a series of equal signs or hyphens to underline the column headings.
- D. Include an Unjustified Command at the end of the header.

4. Create the footer you want to print at the bottom of each page of the report. Include an Unjustified Command at the end of the footer if you center the footer.
5. Put the cursor under the Page Footer End Command and issue an Apple-C to copy "From clipboard". The data base records will flow into the word processor document. Your document should now look like the example in *Figure 2*.
6. Save and then print the document.

Saving Your Formats

You should develop a system that makes it easy to find the word processor document that contains the report format for your data base file.

One approach is to save the data base file and corresponding word processor file on the same disk or in the same subdirectory. Another approach is to keep all the word processor documents on a separate disk or in a separate subdirectory called /FORMATS.

Try to develop a file naming system that helps you identify the correct report format for your application. For example, you can use the data base file name for the word processor file followed by the suffix ".F" (to indicate the file contains a "format") and then a number. Using this system, the first format file for a data base called "ADDRESS" would be ADDRESS.F1.

We suggest that you save an annotated copy of each report in a three-ring binder. Write the pathnames or disk and file names of both the data base and associated word processor files on each report. That will make it easy to find the correct report template.

[Dr. Warren Williams is on the faculty at Eastern Michigan University where he teaches courses in the Educational Technology program. He is the President of NAUG and is a frequent contributor to the AppleWorks Forum. Mitchell Bernstein teaches mathematics at the Philadelphia (PA) High School for Girls.]

Capture the power of AppleWorks with

AT LAST!

All the power of AppleWorks
— without all the work!

AppleWorks in Action columnist, Ruth Witkin, has created the popular Success with AppleWorks* series exclusively for *inCider/A+*. Each volume delivers ten ready-to-use templates on one disk — all set up and ready for your data! Fast, efficient and error-free! Plus, each disk is accompanied by a detailed documentation booklet.

Volume V helps you manage your finances, run your club and much more . . . • Use the Mortgage spreadsheet to determine how much of a home mortgage you can afford, using fixed and adjustable interest rates • Figure out income and expenditures both before and after retirement with the Retirement Budget featuring a built-in inflation table • Keep track of your organization's membership and print reports and mailing labels with the Club Membership database. • Plus seven other valuable templates to make easy work of your school, business, and personal projects.

Volumes I, II, III and IV are still available!

Order Today!
For Immediate Service
Call Toll-Free
1-800-343-0728
(in NH: 924-0100)

* Volumes I – IV require AppleWorks version 2.0 or higher. Volume V requires AppleWorks version 2.1 or higher. AppleWorks is a registered trademark of Apple Computer, Inc., licensed to Claris Corporation.

Success with AppleWorks

Build an instant library of exclusive AppleWorks applications by ordering all five volumes and SAVE!

~~Just \$29.97 each
or order all five
just \$99.97 and
SAVE \$50!~~

Special!

Now order all five
volumes for only
\$79.97! SAVE \$70!
Single volumes, now
only **\$24.97! SAVE \$5!**

VOLUME I – Mail List, Checkbook, Price Quote, Loan, Quote Letter, Newsletter, Price/Volume, Budget, Sales Report, Expenses

VOLUME II – Cash Flow, Breakeven, Net Worth, Menu, 3-Across Labels, Income, Car Loan, Rent or Buy, Cover Letter, Important Numbers

VOLUME III – Car Costs, Retirement, Living Expenses, Credit Cards, Return-Address Labels, Handbook, Wine List, Taxes, Loan II, Travel Expenses

VOLUME IV – Annual Interest Calculations, Retirement Budget Plan, Business Statements, Business Startup Expenses, Résumé Layouts, Stock Portfolio, Job Search Employer Database, Shopping Lists, Résumé Cover Letters, Investment Payouts

VOLUME V – Invitation, Expense Itemizer, Stock Portfolio, Newsletter, Club Membership, Memo Merge, Personal Documents, Taxes89, Mortgage, Retirement Budget

YES! I want to capture the power of AppleWorks with
Success with AppleWorks*!

Please send me the following for just \$24.97 each:

☐ Volume I ☐ Volume II ☐ Volume III ☐ Volume IV ☐ Volume V

SPECIAL! Save \$70! ☐ All five volumes for just \$79.97

☐ Payment enclosed (payable to *inCider/A+*)

Charge my: ☐ MasterCard ☐ Visa
☐ American Express

Card #

Exp. Date

Signature

Name

Address

City/State/Zip

HN81A

***inCider/A+* Special Products**

80 Elm Street, Peterborough, NH 03458

Canadian orders: add 7% GST. Foreign air mail: add \$3.95. Foreign orders must be paid in U.S. funds drawn on a U.S. bank.

* Volumes I – IV require AppleWorks version 2.0 or higher. Volume V requires AppleWorks version 2.1 or higher.

Epson EPL-7000: Laser Output on a Budget

by Douglas Gum

Until recently, the high cost of laser printers restricted their use to desktop publishing applications and multi-user office environments. However, declining prices now put AppleWorks-compatible, non-PostScript laser printers within reach of individual users. For example, Epson recently introduced the EPL-7000, a low cost (\$850 - \$1,000 from discount dealers), high quality, AppleWorks-compatible laser printer.

Specifications

The Epson EPL-7000 produces 300 dots per inch (dpi) output at a rated speed of six pages per minute. The printer offers 14 built-in fonts, 1/2 megabyte of memory (expandable to 6 megabytes), parallel and serial interfaces, and emulation modes for HP LaserJet IIP, Epson LQ, and Epson FX printers. Macintosh and networked Apple II users need a \$1,600 option which includes more memory, AppleTalk, and PostScript.

In addition to its low price, four features make the EPL-7000 particularly attractive. First, the printer offers built-in Epson FX emulation. That makes the EPL-7000 compatible with all versions of AppleWorks and with popular AppleWorks enhancements such as TimeOut SuperFonts and TimeOut Graph. Sample AppleWorks output from the EPL-7000 appears in *Figure 1*. Printouts from TimeOut SuperFonts and TimeOut Graph appear in *Figures 2 and 3*.

Second, the EPL-7000 can emulate an HP LaserJet IIP. Sample output using the LaserJet driver in Publish-It!4 appears in *Figure 4*.

The printer's most unique feature is its dual interface channels that let two users share the printer without using AppleTalk connectors or switch boxes. (See

Figure 1: Direct from AppleWorks

Four score and seven years ago, our forefathers brought forth to this continent a new **nation** conceived in liberty and dedicated to the proposition that all men are created equal. We are now engaged in a great civil war, testing that that nation, or any nation, so *conceived* and so dedicated can long endure.

Figure 2: SuperFonts Output

Four score and seven years ago, our forefathers brought forth to this continent a new **nation** conceived in liberty and dedicated to the proposition that all men are created equal. We are now engaged in a great civil war, testing that that nation, or any nation, so *conceived* and so dedicated can long endure.

the sidebar entitled "How to Share the Printer" for more information about this feature.)

Finally, with the optional, face-up output paper tray, the EPL-7000 offers a straight-through paper path that contributes to the unit's ability to print reliably on envelopes, labels, and transparencies.

Output Quality

As you can see from the sample in *Figure 1*, the EPL-7000 produces clear, crisp output from AppleWorks. The Epson emulator respects all the commands available in AppleWorks' Epson FX driver, although the EPL-7000 substitutes its own fonts for those produced by the Epson FX printer. For example, the EPL-7000 prints with a 12 point Courier font when you select 10 cpi in AppleWorks. It sub-

Figure 3: TO.Graph Output

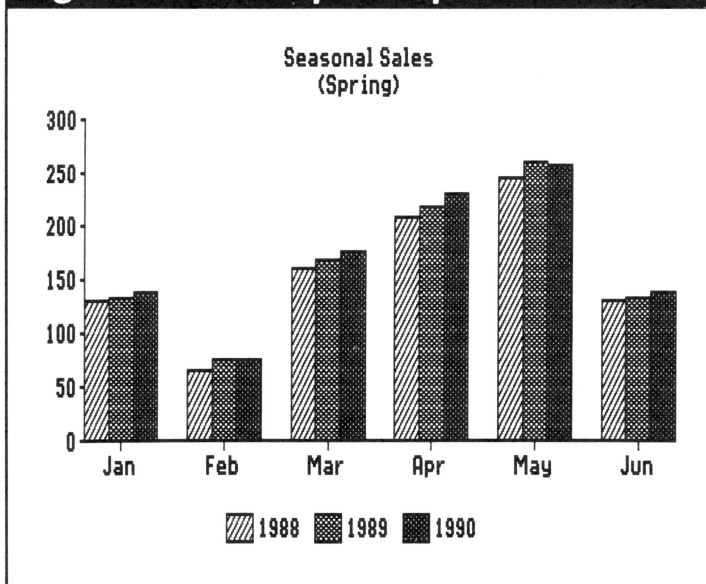
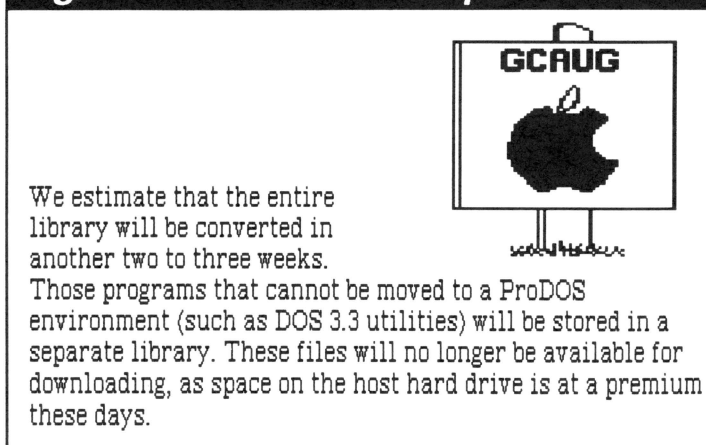


Figure 4: Publish-It!4 Output



stitutes 10 point and 7 point sans-serif fonts for 12 cpi and 17 cpi respectively.

Proportionally spaced output is adequate but not exceptional. The EPL-7000 imitates proportional printing by using the monospaced Courier font with different inter-letter spacing. *Figure 1* depicts the result of this compromise. (*Figure 1* also demonstrates the use of AppleWorks 3.0's Special Codes feature. I produced the two sizes of print in that paragraph by inserting the Epson codes for Double High (Escape w1) and Cancel Double High (Escape w0) in the Special Codes 1 and 2 positions respectively.)

The output from TimeOut SuperFonts (see *Figure 2*) is disappointing because the SuperFonts printer driver sends 72 dots per inch graphic images and does not use the printer's built-in 300 dpi fonts.

The EPL-7000 reproduces the images that would print on the lower-resolution Epson FX printers. Thus, circles (as in the letter "O") or diagonal lines (as in the letter "X") print with jagged edges. The EPL-7000 exaggerates the jagged edges because it produces square blocks; the pins on a dot matrix printer produce round dots.

TimeOut Graph also sends 72 dpi graphic output to the printer. However, Graph printouts on the EPL-7000 were more acceptable than those from SuperFonts because of the sharp corners and "block" output one associates with graphs (see *Figure 3*).

As indicated earlier, the EPL-7000 also offers LaserJet emulation, which makes the printer compatible with page layout programs that include LaserJet drivers. For example, the LaserJet driver in Publish It!4 produces 75x150 dpi output on both the HP LaserJet and the EPL-7000; this output is significantly better than that available from SuperFonts (see *Figure 4*).

SuperFonts, Graph, and other programs that print full-page graphics (e.g., desktop publishing programs) can easily overload the standard 1/2 megabyte of memory in the EPL-7000. Users who produce complex graphics will need to upgrade the printer to at least one megabyte of memory. (The EPL-7000 uses standard 256K x 4, 80ns DRAMS available from Epson dealers or directly from the manufacturer.)

Setup

Setting up the EPL-7000 involves removing two screws and a metal plate, inserting the toner cartridge, and plugging in the power and printer cords. The manual is easy to follow and includes helpful diagrams.

Finding a place for the printer is more of a problem. The EPL-7000 has a 19.5-inch by 15-inch footprint and needs a minimum of four inches of clearance on all sides for air flow. The standard paper tray requires an additional 11 inches (13 inches when extended for legal size paper), and an optional face-up output tray adds another 11-13 inches to the back of the printer. You will need a large desk, a printer stand intended for a wide carriage printer, or a wide and deep shelf for the unit.

EPL-7000 Settings that Work

I tested the EPL-7000 connected to a Grappler+ parallel printer interface card in a IIe and to the serial printer port on a IIGS. The following settings produced excellent output:

Apple IIe, Grappler+: Set the DIP switches on the Grappler+ to the settings for an Epson FX printer. Then enter the following settings in the EPL-7000 Level 2 Menu:

- 1) Ch Config: P: Mode: FX
- 2) P-Config: Save

Apple IIGS: Leave the IIGS printer port set to its default values and configure the EPL-7000 Level 2 Menu as follows:

- 1) Memory Share: S10:0P (turn the power off, then on again)
- 2) Ch Config: S: Mode: FX
Serial: RS232
Stop Bit: 1
XON/XOFF: Off
DSR: On
CTS: On
- 3) P-Config: Save

Use the following Level 1 Menu settings if you use the EPL-7000's FX-emulation mode with graphics programs such as SuperFonts or Graph:

- 1) Sub Config: B-Image: B-Code
- 2) J-Reprint: Off
- 3) System Conf: Save Macro: 1
- 4) System Conf: PowerOn Macro: 1

It is better to leave "J-Reprint" set to "On" if you do not use graphics software or if you add memory to the printer. With "J-Reprint" set to "On", the printer will "remember" the entire last page it tried to print if the paper feed jams.

Configuration

You configure the EPL-7000 by pressing arrow keys on the front of the printer in response to items that appear on the printer's 20-character LCD display. The long list of configurable options is organized into a tree-structured menu. Searching through the menus blindly is frustrating; the Quick Reference Chart inside the back cover of the manu-

al is invaluable. (I taped the chart to the top of my printer next to the LCD display.)

The menu includes two sections (called Level 1 and Level 2). Level 2 defines the operating environment and includes settings such as the emulation mode and interface parameters (that you set up once and rarely change). You enter your settings and then select "P-Config Save", which installs your Level 2 settings as the defaults that take effect when you turn on the printer. The "Factory Reset" option restores all the settings to their original defaults.

The Level 1 Menu accepts the settings you change more often. These include settings for paper size, margins, number of copies, and portrait or landscape orientation. Users who change the Level 1 settings for different printing tasks will appreciate the printer's ability to memorize up to four combinations of Level 1 settings as "macros". For example, you can use the printer's Level 1 Menu to set the printer for "Paper Size: C10" (#10 envelopes), "Orient: Landscape" and "Feed: Upper" then select "Save Macro: 2". When you want to print envelopes, you can select "Load Macro: 2", which will implement the configuration you defined for that macro.

Operation

AppleWorks users should configure the EPL-7000 to use the printer's Epson FX emulation mode. (AppleWorks supports proportionally spaced output from Epson printers and does not offer a LaserJet driver.) I found no difference between the Epson LQ and FX modes when printing from AppleWorks, SuperFonts, or Graph.

You add the EPL-7000 to the AppleWorks Printer Menu by defining a new printer that you declare is an Epson FX. Then set "Needs line feed after each Return" to "Yes".

The EPL-7000 prints a maximum of 62 lines per page (83 lines at 8 lines per inch); you must set the bottom margin to at least .7 inches for all documents and reports.

Use the settings in the sidebar entitled "EPL-7000 Settings that Work" to configure the printer; they are the result of a lot of experimentation. The Level

Hardware Review...

1 subconfiguration "B-Code" setting eliminates unacceptable white lines that appear in SuperFonts and Graph. Turning off the J-Reprint function frees up considerable memory for use when printing graphics.

Printing Speed

Computer users justifiably place little faith in the "pages per minute" claims of printer manufacturers; few printers actually print at their rated speed. The EPL-7000 is an exception. It took the EPL-7000 7-10 seconds before starting to print the first page of an AppleWorks document, but subsequent pages printed immediately, at the rate of one page each 8-10 seconds. The printer maintained that speed in all modes, even when using the Epson FX emulation mode to print fully-justified, proportionally spaced output. The speed of the EPL-7000 is impressive by any standard.

Printing text (as opposed to graphics) requires little printer memory. The EPL-7000 "knows" this and assigns the extra memory to act as a print buffer that captures your output and releases your computer for other tasks.

Documentation

At first glance, the 330-page printer manual is both daunting and impressive. Almost a third of the manual contains instructions you need to read only once, including un-packing and setting up the printer, performing routine cleaning and maintenance, and replacing the imaging cartridge. The manual also contains instructions that describe the optional attachments such as the lower paper cassette, the straight-through face-up output tray, and additional memory. The documentation does a good job helping users set up, connect, and configure the printer.

There is an excellent section that describes how to configure your programs to get the best results from the printer. However, that section is not necessary for AppleWorks users because of the EPL-7000's emulation modes.

The section of greatest importance to AppleWorks users is the Level 1 Menu instructions that let you change the paper size and orientation settings by

How to Share the Printer

Two users can share a single EPL-7000 by connecting one computer through each of the printer's two communication ports. Multi-user operation also requires a printer memory upgrade: You need one megabyte of memory, plus an additional 1/2 megabyte for each computer that runs TimeOut SuperFonts, Graph, or any other graphic based software.

After upgrading the memory, you use the printer's Control Panel to specify how much memory you will allocate to each "channel". The printer will then behave like two separate printers sharing one paper tray. (For example one channel can be in FX emulation mode while the other is in LaserJet mode.) The printer resolves any potential conflicts between two users with a waiting period you can set between 5 and 95 seconds. The printer waits the specified time after completing a print job from one channel before starting a job that is ready on the other channel.

Epson's approach to supporting two users is unique, inexpensive, and workable. It adds even greater value to this exceptional printer.

using the switches on the printer. (Note that the instructions for configuring the printer to use the serial interface are wrong. Use the procedure outlined in the sidebar "EPL-7000 Settings that Work".)

However, the advanced user might find insufficient technical information in the manual. For example, the manual lists the printer codes supported in each mode but does not explain those codes unless the output differs from that produced by the printer it emulates. Advanced users may want to get the technical manuals for the printers they are emulating.

Support

Epson does not offer a technical support telephone number and relies on its dealers to support its products. As a result, the quality of support you receive will vary from dealer to dealer. Most users will have no trouble setting up and using this printer with only the manual to help them. However, users with unusual hardware or software should choose their dealer carefully and should avoid mail order purchases unless they are able to do their own trouble-shooting.

Value

The EPL-7000 lists for \$1,399 and is advertised by mail order vendors for \$850-\$1,000. You should be able to negotiate a price under \$1,000 from a local dealer.

The most popular competitive printer is HP's LaserJet IIP, an excellent four page per minute printer that costs \$700 from discount dealers. The basic HP unit can produce attractive non-proportional output from AppleWorks but requires a \$150 Epson emulation cartridge to work with SuperFonts and Graph. (I did not test the LaserJet Epson emulator.) The LaserJet IIP does not automatically support two users unless you add AppleTalk compatibility and memory to the printer.

The EPL-7000 is an excellent value for such a high quality, flexible printer. The unit merits your careful consideration.

[Douglas Gum is the Production Control Manager for a manufacturer of film handling equipment and is the owner of Office Productivity Software, developers of AmperMacros.]

From the Editor

How to Avoid Problems Patching AppleWorks

Some NAUG members report problems installing the AppleWorks patches we describe in the *AppleWorks Forum*. Many of these problems are caused by using older versions of BASIC. (Version 1.4.1 is current. Versions 1.0 and 1.3 of BASIC have bugs that can damage your patched files.)

I suggest that you launch your copy of BASIC.SYSTEM and check the version number that appears at the top of the screen.

You can get BASIC 1.4.1 from your local Apple dealer or from NAUG. Apple IIGs users running GS/OS should use GS/OS 5.0.4, which includes BASIC 1.4.1 (\$12 plus \$2 s/h from NAUG's Public Domain Library). All other users can copy BASIC 1.4.1 from the current ProDOS System Disk (available from NAUG for \$4 (5.25-inch) or \$6 (3.5-inch) plus \$2 s/h).

News for AppleWorks Users

Apple Computer

Early this summer, Apple Computer of France advertised a special offer that let Apple II owners trade in any model Apple II CPU for a \$900 discount on a Macintosh LC computer. Although the offer was only valid in France and has now expired, it raises interesting questions about Apple's policies and goals.

Our thanks to Dimitri Geystor of Saint-Blaise, France for sending us the Apple advertisement.

Beagle Bros

Beagle Bros recently released a new manual for TimeOut SuperFonts. The new manual includes a list of the fonts on the SuperFonts disk, documentation for PickFonts and TimeOut Paint (both of which are on the current SuperFonts disk), and a section to help you identify the source of common SuperFonts problems.

SuperFonts owners can buy the new manual directly from Beagle for \$10. You must include the cover from your original manual with your order. Beagle will not accept copies of the cover or telephone orders for this manual.

[Beagle Bros, 6215 Ferris Square, Suite 100, San Diego, California 92121; (619) 452-5500.]

Black Box Corporation

NAUG members looking for high quality cables, connectors, switch boxes, serial-to-parallel converters, buffers, and the like should get the new 225-page Black Box Corporation catalog. Black Box supplies an outstanding variety of communications devices and cables. The company provides excellent telephone support and sells high quality products at premium prices.

[Black Box Corporation, Box 12800, Pittsburgh, Pennsylvania 15241; (412) 746-5500; Fax: (800) 321-0746.]

How to Accumulate Data in a Cell

by Cathleen Merritt

Many AppleWorks users develop spreadsheet templates that keep track of "lists". For example, checkbook register templates can help maintain your "list" of checks and deposits.

Maintaining lists is a relatively easy application for a template developer. Far more challenging is preparing templates that store cumulative totals instead of the individual transactions. For example, consider the model in *Figure 1* which tracks the year-to-date contacts by sales personnel.

The developer of this template wants to accumulate values in column C that contain the original value plus any new entry in column B. However, there is no way to enter a new value in column B without replacing the original entry in that column. How can you add the new value you just entered and keep AppleWorks from "forgetting" the original entry you just replaced?

Circular Cell References

The trick is to use a "circular cell reference"; a formula that refers to itself. For example, cell C5 in *Figure 1* contains the formula +B5+C5. When you issue an Apple-K, AppleWorks will replace the original value in cell C5 with the sum of that value plus the new value in cell B5.

Remember to set calculations to "manual" if you use circular cell references. Otherwise, the model will compute a new total each time you make an

Figure 1: Spreadsheet with Cumulative Data

File: SALES.CONTACTS		REVIEW/ADD/CHANGE		Escape: Main Menu
	A	B	C	E
1				
2		Contacts	Year-to-date	
3 Name		this month	contacts	
4				
5 James Adams		3	24	Circular cell reference: +B5+C5
6 Thomas Jefferson		4	28	
7 Abraham Lincoln		0	30	
8 Zachary Taylor		0	24	
9 George Washington		5	27	
10				
11				
12				
13				
14				
15				
16				
17				
18				

C5: (Value) +B5+C5
Type entry or use ⌘ commands

327K Avail

entry anywhere in the spreadsheet.

Also, make certain that you replace all non-changed values with zeros before you issue an Apple-K command. If you leave the original values in column B, AppleWorks will add the previous entry to the total when you issue another Calculate Command. (The zeros in cells B7 and B8 tell AppleWorks not to increment the values in cells C7 and C8 when you issue an Apple-K.)

[Cathleen Merritt is the Director of NAUG and is the Editor of the AppleWorks Forum.]

The author thanks Charles Murphy of Morganville, New Jersey for submitting a question that encouraged her to write this article.]

Shopping List Template is a Real Time-Saver

by Stan Hecker

Returning to the grocery store for a forgotten item is both irritating and wasteful. This month's data base template, submitted by Mark Chasse of Jupiter, Florida, can eliminate many of those extra trips. Mr. Chasse's template produces an aisle-by-aisle shopping list (which estimates the cost of your groceries and serves as a checklist that keeps you from forgetting items you might miss).

Figure 1 depicts the single record layout of the template; *Figure 2* presents a weekly shopping list produced by a report from the data base file.

Getting Started

Start by creating the categories for your data base template and by customizing the template for your own application. For example, Mr. Chasse includes the product number in each record. I don't use product numbers, so I replaced that category with "HOME LOCATION", which lists where I store each item. Most items (e.g., milk and meat) are obvious, so I leave the HOME LOCATION category blank for those records. However, I can never remember if the metal polish goes in the kitchen, bathroom, garage, or workshop, so I find the HOME LOCATION category useful.

Here are some suggestions to help you build your template:

1. Use the cash register receipt from a large shopping trip to help you build the data base.
2. Some supermarkets will give you a copy of the aisle index attached to their carts or stock-clerk clipboards. If you cannot get an aisle index, you

Figure 1: Single Record Layout

```
File: GROCERY TEMPLAT      REVIEW/ADD/CHANGE      Escape: Main Menu
Selection: All records

Record 1 of 269  (269 selected)

=====
PROD#: 2856
BRAND: Starkist
ITEM: Albacore/Solid
WEIGHT: 66.5 OZ
PRICE: 9.29
COMMENTS: -
NEED: 0
AISLE: 1
=====

Type entry or use 0 commands      327K Avail.
```

can guess the aisle locations and correct your entries later.

3. Arrange the records alphabetically by product name.
4. Create a report format that produces the shopping list that appears in *Figure 2*, but don't print the report until you are ready to go shopping.

The COST column in this report is a calculated category. To create the category, get the SHOP.LIST report format on the screen, put the cursor where you want the category to appear, and issue an Apple-K. Define the calculations as "A*G" which means "multiply the number needed times the unit price". Then issue an Apple-T to total the COST column.

Issue an Apple-J to right-justify the PRICE column.

You want this report to only include items you need to buy, so issue an Apple-R command and specify that you want to select records where NEED is greater than zero.

My Favorite Template...

Figure 2: The "Shopping List"

File: GROCERY TEMPLAT						Page 1
Report: SHOP.LIST						5/15/91
Selection: NEED is greater than 0						
NEED	BRAND	ITEM	WEIGHT	AISLE	COMMENTS	PRICE COST
3	Starkist	Albacore/Water	12.5.OZ	1		2.25 6.75
1	B & M	Beans, Baked	7LBS 6.OZ	1		3.47 3.47
1	B & M	Beans, Baked	55.OZ	1		1.77 1.77
1	Michelob	Beer, Light	24/12 OZ.	1	Bottles	11.85 11.85
2	Shenandoah	Apples, Canned	6.LB.8.OZ	2		2.85 5.70
1	Reynolds	Aluminum Foil	18" X 75	3	Cheaper (13.53 FOR 500')	2.05 2.05
1	Presto (Reseal)	Bags, Sandwich	200 bgs.	3		2.09 2.09
1	Clorox	Bleach, Liquid	1.5 GAL	3		1.36 1.36
1	Budding	Beef, Shaved	3.0 LBS	9		7.29 7.29
1	Rose's	Bacon, Canadian	3.0 LBS	11		8.23 8.23
1		Beans, Green Froz	5.0 LBS	14		3.25 3.25
						53.81*

Figure 3: The "Refrigerator List"

File: GROCERY TEMPLAT						Page 1
Report: REFRIGERATOR.LIST						June 23, 1991
NEED	BRAND	ITEM	WEIGHT	AISLE	PRICE	COMMENTS
0	Starkist	Albacore/Solid	66.5.OZ	1	9.29	
0	Starkist	Albacore/Water	12.5.OZ	1	2.25	
0	Starkist, Chk light	Albacore/Water	66.5.OZ	1	5.39	
0	Reynolds	Aluminum Foil	12"X200'	3	3.59	
0	Reynolds	Aluminum Foil	18" X 75 FT.	3	2.05	Cheaper (13.53 FOR 500')
0	Reynolds	Aluminum Foil	18" X 500 FT.	3	17.89	
0	Reynolds	Aluminum Foil	12"X 1000 FT.	3	21.00	
0	Cats Pride	Cat Litter	40LBS	7	2.69	
0	Quaker	Cereal	32.OZ	1	3.03	
0	Corn Flakes	Cereal	2.5LB	2	2.29	

5. Prepare a second report format that produces the output in *Figure 3*. You will post this report on your refrigerator and will replace the zero in the NEED category as you use up the groceries in the house.

I suggest that you double space this report because you will write on it with a pencil or pen during the week. I use compressed print (17 characters per inch) so I can fit all the categories on the printed line.

6. Change the multiple record layout so it matches the example in *Figure 4*.

7. Save the template; you will not change it often.

Using the Template

1. Post the report you created in step #5 above (see *Figure 3*) on your refrigerator or in some other convenient location. Cross off the zero under "NEED" and write in the number of each item you need to buy.

Figure 4: Multiple Record Layout

File: GROCERY TEMPLAT		REVIEW/ADD/CHANGE		Escape: Main Menu	
Selection: All records					
NEED	ITEM	BRAND	WEIGHT	PRICE	PROD# AISLE COMMENTS
Ø	Albacore/Solid	Starkist	66.5.OZ	9.29	2856 1 -
Ø	Albacore/Water	Starkist	12.5.OZ	2.25	2857 1 -
Ø	Albacore/Water	Starkist, Chk light	66.5.OZ	5.39	2855 1 -
Ø	Aluminum Foil	Reynolds	12"X2ØØ'	3.59	287Ø 3 -
Ø	Aluminum Foil	Reynolds	18" X 75	2.Ø5	2871 3 Cheaper
Ø	Aluminum Foil	Reynolds	18" X 5Ø	17.89	27797 3 -
Ø	Aluminum Foil	Reynolds	12"X 1ØØ	21.ØØ	278Ø5 3 -
Ø	Antifreeze	Zerex	1GAL	3.39	5127 8 -
Ø	Apples, Canned	Shenandoah	6.LB.8.0	2.85	418Ø 2 -
Ø	Au gratin	Frenchs	3/5.5.OZ	2.29	27Ø7 5 Real Cheese
Ø	Bacon, Canadian	Rose's	3LBS	8.23	988 11 -
Ø	Bags, Sandwich	Presto (Reseal)	2ØØ bgs.	2.Ø9	19Ø7 3 -
Ø	Beans, Baked	B & M	7LBS 6.0	3.47	2462 1 -
Ø	Beans, Baked	B & M	55.OZ	1.77	2466 1 -
Ø	Beans, Green Fro	-	5LBS	3.25	477 14 -

Type entry or use Ø commands				356K Avail.	

- Before going shopping, load the GROCERY TEMPLAT file onto the AppleWorks desktop. Then issue an Apple-N and change the name of the file if you did not lock the original template.
- Print the "Refrigerator List" report (see Figure 3) to use next week; post that report on your refrigerator.
- Display the data in multiple record layout (see Figure 4) and change the "NEED" on the computer's screen to match your pencil-marked list.
- Arrange the file by "AISLE".
- Print the "Shopping List" report (see Figure 2). That will produce a shopping list arranged by supermarket aisle, including an estimate of the cost of that week's purchases.
- Return to the Main Menu and remove the GROCERY TEMPLAT file from the desktop. Do not save the revised template on your disk; there is no need to change the original unless prices change drastically or you add items to your list. You will use the original data base file again next week.

I think you will agree that Mr. Chasse's simple data base template is an excellent time saver. Now if I could only upload the report to my local supermarket and get the order delivered.

[Stan Hecker is on the administrative staff at Michigan State University, East Lansing, Michigan, and is a partner in H&H Consulting, a Michigan concern specializing in school district financial and population analyses.

Mark Chasse is a respiratory therapist and polysomnographer at Jupiter Hospital in Jupiter, Florida.

Each month, NAUG publishes an interesting template submitted by a member. We evaluate templates on their generalizability and applicability, not on their complexity. No template is too simple or too complex. Please send a disk and a printed copy of your favorite template(s), a description of what each template

does, how it works, and why it may be interesting to your NAUG colleagues. Mail to: My Favorite Template, NAUG, Box 87453, Canton MI 48187.]

LockOut 1.1

At last, protection for the IIGS Control Panel that really works! LockOut allows access to all Classic and New Desk Accessories (including both Control Panels), but prevents changes to the Control Panel from taking effect. Does not interfere with desk accessories which do not change the Control Panel. LockOut patches the system's firmware silently and automatically, during boot up. Instructions include information for installing LockOut on ProDOS-8, ProDOS-16, and GS/OS floppies, as well as AppleShare file servers and hard drives.

Package includes license to install LockOut on all floppy disks, hard disks, and file servers in a single building. Successfully used in over 150 school systems across the country. Written by John Link, author of SuperPatch. Satisfaction guaranteed, or your money back. \$10.00 + 2.00 S&H. Send to:

LockOut
3382 Sandra Drive
Kalamazoo, MI 49004

More Envelope Tips

by Lorne Hamilton

*The February 1989 issue of the **AppleWorks Forum** included a comprehensive article describing how to print envelopes with AppleWorks. This month, Mr. Hamilton suggests three additional techniques that make it easy to prepare envelopes.*

I use AppleWorks, an Apple IIc, and an ImageWriter II printer for all my correspondence. The following shortcuts help me print my envelopes:

1. When feeding an envelope into the printer, set the printer to friction feed, insert the envelope in the back of the platen roller, turn off the Select light, and push the Form Feed button. This consistently places the envelope in the same position relative to the print head and eliminates the need to adjust the placement of each envelope.
2. Set up a template to let you use the printer as a typewriter. The template shown in *Figure 1* uses the Enter Keyboard Command (on the word processor Options Menu) to provide a quick way to print addresses on envelopes. Just insert an envelope in the printer, bring the tem-

Figure 1: Sample Envelope Template

```
File: Generic Envelop      REVIEW/ADD/CHANGE      Escape: Main Menu
=====
The Eston Group
P.O. Box 4445
Greensboro, NC 27404

      ^
      ^
      ^
      ^
      ^
      ^
      ^
----- -End of Page 1- -----
-----
Type entry or use ⌘ commands  Enter Keyboard      ⌘-? for Help
```

Figure 2: Macro that Types Envelopes

```
E:<awp :           { Define the macro.           }
oa-C>T<           { Copy "To Clipboard".         }
down : down : down : down : { Highlight four lines.       }
input :           { Stop so the user can change the highlight. }
rtn :             { End the Copy Command.         }
sa-1 :            { Mark the file and go to the Main Menu.   }
rtn>3<rtn : rtn : { Create a new word processor file... }
>TempEnv<rtn :    { ...called TempEnv.             }
oa-0 :            { Go to the Options Menu and...         }
>lm<rtn>0.7<rtn :  { set the left margin for the return address. }
>tm<rtn>0.3<rtn>bm<rtn>0<rtn : { Set the top and bottom margins. }
esc :            { And leave the Options Menu.         }
>The Eston Group, Inc.<rtn : { Type the return address.   }
>P.O. Box 4445<rtn>
Greensboro, NC 27404<rtn :
oa-0 :            { Go to the Options Menu.             }
>lm<rtn>2.5<rtn : esc : { Set the left margin for recipient's address. }
rtn : rtn : rtn : rtn : { Skip to the line for recipient's address. }
oa-C>F<          { Copy the address "From Clipboard".       }
sa-P :           { Print the address with the current printer. }
oa-Q : esc :     { Return to the Main Menu.             }
>4<rtn : rtn>3<rtn>Y< { Delete the TempEnv file from the desktop. }
sa-2>!           { Return to the original file.             }
```

Word Processor Tips...

plate onto the AppleWorks desktop, issue an Apple-P command, and fill in the blanks when AppleWorks asks for an entry.

3. Consider using TimeOut UltraMacros and the macro in *Figure 2* to address your envelopes. This macro copies the recipient's name and address onto the clipboard, creates a temporary word processor file, copies the name and address into that file, types the envelope, removes the temporary file from the desktop, and returns you to the original file. The macro assumes that you did not change the <sa-1> and <sa-2> macros in the original UltraMacros default set.

Add this macro to your macro set [Ed: See *Mark Munz's The UltraMacros Primer for step-by-step directions that describe how to compile macros.*] Then follow these steps:

- A. Type and print your letter normally.
- B. Insert an envelope in the printer as described above.
- C. Put the cursor on the first letter of the recipient's name and address in the letter.
- D. Issue a Solid-Apple-E to invoke the macro. The macro will automatically highlight four lines of text and give you the option of highlighting additional lines if needed.

I will probably take the suggestion made in the February 1989 article and get a second printer to use with continuous feed envelopes. But until I do, these procedures make it easy to prepare my envelopes with AppleWorks.

AlphaCheck Plus

- Runs inside AppleWorks v3.0
- Double/Single entry Bookkeeping
- Personal/Business
- Full financial & tax reporting
- Post to General Ledger
- Check Writing
- Cash Disbursement Journal
- Chart of Accounts & Vendors Lists
- ...and much more

Price \$68.00 + \$3.50 s/h

Fun With AppleWorks

- Great games
- New AppleWorks fonts
- Art in AppleWorks
- Spreadsheet fun
- Plus demo for AlphaCheck Plus

All for only \$6.00 + \$1.50 s/h

NAUG Special!
AlphaCheck Plus
\$39.95 + \$3.50 s/h

ACTASoft

19700 Wells Dr., Woodland Hills, CA 91364; (818) 996-6731

GOLEM COMPUTERS

HARD-DRIVES			
AE Vulcan 20MB	499.	TWGS 32K Cache	294.
Vulcan 40MB	649.	TransWarp IIe	88.
CMS 40MB	495.	PC Transporter	257.
80MB	600.	ZIP ZIP GS	150.
SYQUEST		INTERFACE	
44MB Removable	440.	AE Audio Animat.	160.
QUANTUM		Serial Pro	110.
105MB	539.	Parallel Pro	73.
170MB	849.	APPLE HS SCSI	104.
210MB	971.	CVT RamFAST SCSI	192.
		LASER UDC	45.
MEMORY		MODEMS	
AE GS-RAM Plus		AE Datalink 2400	160.
2MB	229.	Datalink Express	160.
4MB	354.	DL-X/FAX & MNP	217.
GS-RAM III		ZOOM 2400	89.
2MB	200.	ACCESSORIES	
3MB	260.	AE Conserver	73.
RamWorks III		GS Power Supply	87.
1MB	172.	Ile Power Supply	73.
Ram Express II		VITESSE Quickie	194.
1MB	185.	UTIL./LANG./BUSIN.	
Z-RAM Ultra II		APPLE Hypercard	87.
1MB	229.	BEAGLE TimeOut	Call.
CHINOOK		BREDON Prosel 16	69.
RAM4000GS 2MB	169.	BYTE WORKS	
4MB	269.	ORCA-C/M, Pascal	ea. 80.
HARRIS GS Sauce		CLARIS Appleworks	168.
2MB	200.	Appleworks GS	192.
FLOPPY-DRIVES		DATASMITH Nexus	80.
AE 5.25"	125.	SSSI Genesys	89.
3.5" Daisy.	205.	TIMWORKS Publish	74.
3.5" Daisy HD	250.	WAGNER Hyperstudio	84.
AMR 5.25" Daisy.	145.	WESTCODE InWords	79.
3.5" Daisy HD	199.	ACCELER./PROCESS.	
		VITESSE Wings	49.
		AE TransWarp GS	220.
		Bakcup, Harmonie	ea. 30.

-VISA/MC, AMEX, C.O.D., Personal Checks welcome. - Calif. residents add 6% sales tax. - Defective items will be replaced or repaired at our discretion: Call for Return Authorization number. - Restocking fee of 15% will apply on return items. - Shipping and handling: Contiguous States \$5.00 minimum. All others call, FAX or write - All items subject to availability. Prices/Stipulations subject to change without notice. All sales final.

CALL FOR FRIENDLY AND KNOWLEDGEABLE
SERVICE AND ADVICE
SCHOOL PO'S AND INTERNATIONAL ORDERS
WELCOME

800-248-0363

Mon. - Fri. 7am-6pm PT 805-499-7766 FAX: 805-498-7689
P.O. Box 6698 Westlake Village, CA. 91360
1111 Rancho Conejo Unit #407 Newbury Park, CA. 91320

If you teach AppleWorks...

NAUG publishes two booklets designed to help AppleWorks beginners learn how to use the program's powerful data base and spreadsheet modules. The articles offer important tips and techniques that help users develop and manage data base and spreadsheet files. The tutorials in the booklets are written in an easy-to-follow, step-by-step fashion with lessons that students can complete at their own computers.

How to Get Started with the Data Base...

The four articles in this booklet describe how to create and manage AppleWorks data base files, how to create and print reports, and how to generate labels. An excellent instructional resource to help teach AppleWorks' data base module. 24-pages, 3-hole punched.

How to Get Started with the Spreadsheet...

The thirteen articles in this booklet describe how to create and manage AppleWorks spreadsheet templates, how to develop attractively formatted models, how to write formulas, how to change cell formats, and how to change the default settings. More advanced articles in the booklet describe how to use the @IF, @CHOOSE, and @LOOKUP functions and how to manage text entries in your spreadsheet templates. An excellent tutorial for a unit on the AppleWorks spreadsheet module. 64-pages, 3-hole punched.

...here is some valuable help.



Teach your Apple II to read.

NAUG now offers InWords, a program that reads full-page documents into AppleWorks. InWords recognizes any printed typeface and has a built-in text editor. Requires a Quickie or LightningScan GS scanner.

NAUG Price: \$77.95 (plus \$3.50 s/h)

List Price: \$129.00

Satisfaction guaranteed or your money back.

How to Get Started with the Data Base...

Copies	Cost ea.	Shipping ea.
1-2	\$5.00	\$1.50
3-10	\$4.75	\$.75
11-25	\$4.25	\$.50
26-50	\$3.75	\$.40
51+	\$3.50	\$.30

How to Get Started with the Spreadsheet...

Copies	Cost ea.	Shipping ea.
1-2	\$7.50	\$1.75
3-10	\$7.00	\$1.00
11-25	\$6.50	\$.75
26-50	\$6.25	\$.50
51+	\$6.00	\$.45

— Satisfaction guaranteed or your money back! —

Please send me _____ copies of "How to Get Started with the Data Base".

Please send me _____ copies of "How to Get Started with the Spreadsheet".

Total \$ _____ ☐ Check ☐ Visa/MC ☐ P.O. No. _____

Credit Card #

Expiration Date

Signature

Phone Number

Name (Please print)

NAUG I.D. Number

Address (UPS shipping - No P.O. boxes please.)

City, State, Zip

Mail to: NAUG, Box 87453, Canton, Michigan 48187; (313) 454-1115.

Prices are in U.S. dollars. Payment must accompany all purchase orders. Foreign orders by credit card only; shipping is additional, specify air mail or surface delivery.

InWords

Send me _____ copies of InWords @ \$77.95 _____

Shipping @ \$3.50 _____

Total _____

☐ Check ☐ Visa/MC ☐ P.O. No. _____

Credit Card #

Expiration Date

Signature

NAUG I.D. Number

Phone Number

Name (Please print.)

Address (UPS shipping - No P.O. boxes, please.)

City, State, Zip

National AppleWorks Users Group

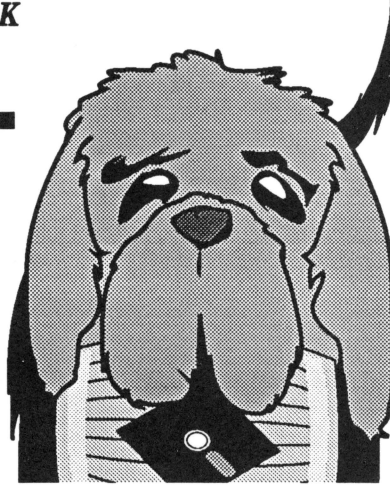
Box 87453; Canton, Michigan 48187; (313) 454-1115.

Foreign orders by credit card only. Foreign postage additional; please specify air or surface. Payment must accompany purchase orders.

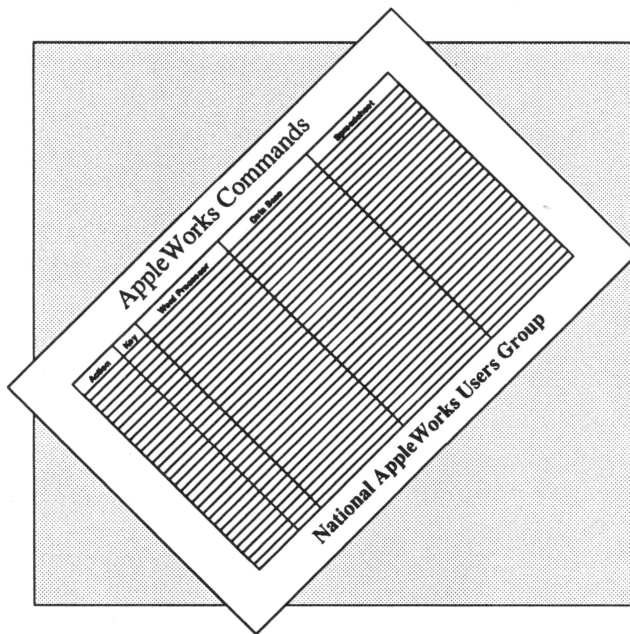
Can You Be Someone's Foul Weather Friend?

VOLUNTEER FOR NAUG's DISK RESCUER PROGRAM

The National AppleWorks Users Group maintains a directory of experts who can recover data from damaged disks. If you are comfortable with disk-



zapping and file recovery programs like ProByte, Disk Warden, or Bag of Tricks, or if you know someone who is, we would like to help our members find you. NAUG will publish a list of these disk and file recovery experts, their fees (if any), and their areas of expertise.



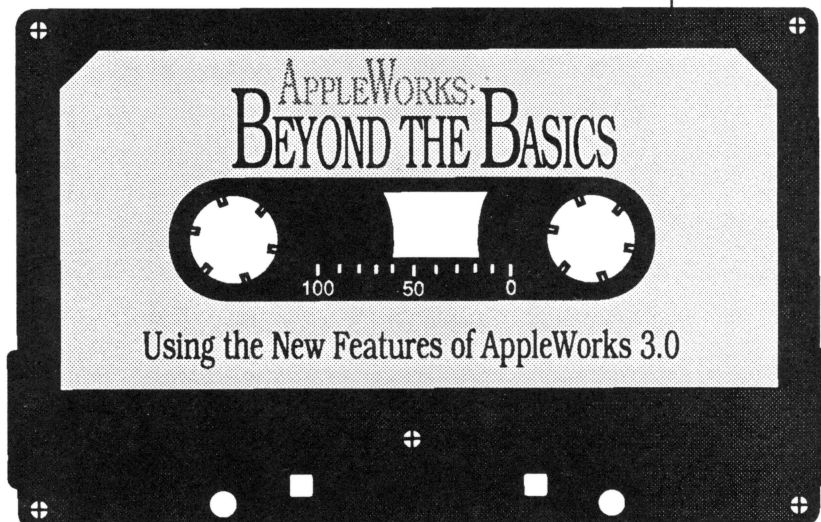
AppleWorks Command Cards

These two-color, 6"x8" cards summarize the AppleWorks commands and the keystroke shortcuts that work with AppleWorks. An excellent quick reference for anyone who teaches AppleWorks.

(\$5.95 package of 20, includes shipping)

— Satisfaction guaranteed or your money back. —

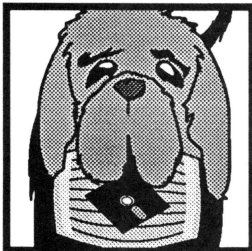
Compatible with all versions of AppleWorks!



Here is the newest addition to NAUG's popular series of cassette-based AppleWorks lessons. Dr. Warren Williams, the nation's leading AppleWorks instructor, presents a ninety minute introduction to the new features of AppleWorks 3.0.

This tape describes each new feature of AppleWorks 3.0 and gives a practical example of its use.

Satisfaction guaranteed or your money back.



SIGNUP CARD

Services:

I can recover:

- ☐ Damaged ProDOS directories
☐ Corrupted bytes in AppleWorks files
☐ 5.25-inch disks ☐ 3.5-inch disks
☐ Hard Disks
☐ Other _____

Payment:

- ☐ Free
☐ Charge: Rate \$_____ per _____ (hour/file/disk)

Turn-Around Time: _____

Comments: _____

Contact Information:

Name _____

Address _____

City, State, Zip _____

Home Phone _____

Business Phone _____

Do you want your phone numbers listed? ☐ Yes ☐ No

Mail to: National AppleWorks Users Group
Box 87453, Canton, Michigan 48187 • (313) 454-1115

NAUG's AppleWorks Command Cards are convenient guides that summarize:

- Word Processor, Data Base, and Spreadsheet commands.
- Cursor movement commands for all three AppleWorks modules.
- File management shortcuts.

Mail to: NAUG, Box 87453, Canton, MI 48187; (313) 454-1115

*Price includes shipping within North America. Foreign orders by credit card only,
foreign postage additional. Payment must accompany purchase orders.*

Please send me _____ packages at \$5.95/package \$_____

☐ Check ☐ Visa/MC ☐ P.O. # _____

Card # _____ Exp. Date _____

Signature _____

Phone _____

Name _____

Address (No P.O. boxes, please) _____

City, State, Zip _____



ORDER FORM

☐ Check ☐ VISA/MC ☐ P.O. No. _____

Credit Card # _____ Exp. Date _____

Signature _____ Phone Number _____

NAUG I.D. Number _____

*Prices are in U.S. dollars. Payment must accompany all purchase orders.
Foreign orders by credit card only, shipping is additional. Specify air or surface.*

Mail to: (Print clearly; this is your return label.)

Name _____

Address (No P.O. boxes, please) _____

City, State, Zip _____

Qty.		NAUG Member	Non- Member	Total
_____	AppleWorks 3.0	@ \$8.95	\$9.95	\$ _____
_____	Word Processor Tips I	@ \$8.95	\$9.95	\$ _____
_____	Data Base Tips	8.95	9.95	_____
_____	Spreadsheet Tips	8.95	9.95	_____
_____	Word Processor Tips II	8.95	9.95	_____
_____	Set of Five Tapes	40.00	45.00	_____
	Shipping		\$ 2.00	
	Total Amount		\$ _____	

Mail to: National AppleWorks Users Group; Box 87453; Canton, MI 48187; (313) 454-1115

Understanding SEG.PR – Part 1

by John Link

This is the first of three articles that describe how AppleWorks controls the output from your printer. The following articles in this series will describe ways to enhance AppleWorks' print routines.

SEG.PR is the core of the interface between AppleWorks and your printer. This article describes how SEG.PR works and how it changed in version 3.0. The more you understand SEG.PR, the more you can use its power and overcome its limitations.

SEG.PR before AppleWorks 3.0

SEG.PR served five functions in versions 1.x and 2.x of AppleWorks:

1. It stored the drivers for all supported printers.
2. It supplied working code whenever you selected a printer from the Printer Menu.
3. It stored information about your AppleWorks preferences. This included the printers on your Printer Menu, the default data disk location, the printer that responded to an Apple-H command, and the codes necessary to initialize the interface card used by the printer.
4. It stored the "Quit Code" that was active when you launched AppleWorks. (See the sidebar entitled "More about the Quit Code" for more information about this topic.)
5. It stored the date.

AppleWorks 1.x and 2.x wrote the Quit Code and the date into the SEG.PR file each time you launched AppleWorks. That is why AppleWorks 1.x and 2.x told 5.25-inch disk users to insert the Startup Disk during the launch, each time you issued a Print Command, and when you quit the program. It is also why these versions of AppleWorks would not run from a write-protected disk.

Although storing the date is a convenience (that's how AppleWorks displays the date the next time you launch the program), storing the Quit Code is a necessity.

The Quit Code resides in an area of memory reserved for the system software. Robert Lissner, the author of AppleWorks, gained access to these 768 bytes of memory by saving their contents in the SEG.PR file on the AppleWorks Startup Disk. He then used that area of memory to store program code and copied the Quit Code back into memory

just before exiting AppleWorks. That let AppleWorks use this normally protected area of memory without compromising its compatibility with current and future system software. This was one of many ways Lissner demonstrated his absolute mastery of the Apple II. (See the sidebar entitled "More about the Quit Code" for more information about this process.)

"The more you understand SEG.PR, the more you can use its power and overcome its limitations."

SEG.ER and AppleWorks 3.0

For all its brilliant design, SEG.PR suffered from an important flaw. Because SEG.PR contained the Quit Code and the drivers for all supported printers, it was too large to store in the memory of a 128K Apple II. In addition, Lissner limited the size of SEG.PR by allocating as little space as possible for each printer driver (in one case, as few as 148 bytes). As a result, you could not easily add code that would let you use additional features on your printer (such as the 13 cpi option supported by the ImageWriter).

More about Printer Drivers

AppleWorks' printer drivers contain complicated data structures that tell AppleWorks which control codes to send to the printer. The more features a printer supports, the longer the string of control codes necessary to use those features.

A typical driver includes:

1. A list of the character per inch (cpi) settings supported by the printer, the number of dots per inch of platen space for each supported cpi, the number of dots per character for each supported cpi, and the printer command that implements each character per inch setting.
2. Initialization and reset codes that set the printer to six lines and 10 characters per inch. These are the defaults built-into AppleWorks.
3. "Flags" to indicate whether the printer supports zero, one, or two proportional type modes. If the printer supports proportional type, the driver includes pointers to the data tables that describe the width of the 96 characters that are printable from AppleWorks. I will describe how AppleWorks handles proportional output in a later article in this series.
4. "Flags" to indicate whether the printer supports superscripts, subscripts, boldface, and underlining, and the codes for these features.
5. A "flag" to indicate if the printer can switch between 6 and 8 lines per inch, and the codes to implement this feature.
6. The code necessary to initialize the IIC printer port. (When AppleWorks detects it is running on a IIC, it removes the option to install your own interface codes from the Change A Printer Menu, and uses the built-in IIC settings.)

All the AppleWorks modules use the characters per inch and lines per inch codes. However, the remaining codes are available only to the AppleWorks word processor. You can replicate their function by using the "Special Codes" command on the Printer Option Menu.

AppleWorks 3.0 overcomes these limitations by transferring some of the functions of the old SEG.PR to a new file, SEG.ER, which is small enough to load into memory on a 128K system.

Unlike earlier versions of AppleWorks, AppleWorks 3.0 does not access SEG.PR when you print a file. Instead, SEG.PR serves as a repository of

information about all the printers supported by the program. AppleWorks looks up the appropriate data in SEG.PR when you add a printer to your Printer Menu and stores the requested driver and your operating preferences in the smaller SEG.ER file that it loads into memory.

The new SEG.ER file serves five functions:

1. It stores information about the user's preference settings. This includes the names of the printers on the user's Printer Menu, the default data disk location, the Apple-H printer, the spell checker and time display preferences, and the codes necessary to initialize the interface cards used by the printers.
2. It stores the status of several Boolean "switches" that activate functions you cannot implement from within AppleWorks. These include "ExpertMode" (which eliminates all the "No/Yes" questions), and the "DontSaveER" feature (which lets AppleWorks run from a write protected disk).

AppleWorks 3.0 ships with the switches for these operations in the "off" position. Most users should leave ExpertMode turned off, and few seem to need the DontSaveEr feature. Users who want to activate these features can buy a patch program such as Companion Plus, which turns either switch to its "on" position. Alternatively, you can use a disk editor to change byte #12 in SEG.ER from zero to one to enable ExpertMode, and/or byte #13 to enable DontSaveER. [Ed: See Claris' "AppleWorks 3.0 Entry Points and Documentation" (available from NAUG, \$12.50, postpaid) for more information.]

3. It stores the working code for up to three printers. Since this uses less space than storing code for all the printers, AppleWorks 3.0 allocates a generous 608 bytes for each printer, including 96 bytes for the character width table (if it uses proportional type), and 512 bytes for its driver.

Because AppleWorks 3.0 allows more space for each printer, the program has space you can use to customize the printer driver after you import the driver from SEG.PR into SEG.ER. The cus-

AppleWorks Resets Your Printer

AppleWorks sends an initialization code to your printer at the beginning of every word processor document and sends a reset code after each document. These codes set "soft-switches" in the printer that override the DIP switches and normal printer defaults. This can lead to surprising results. For example, the standard AppleWorks initialization and reset codes for an ImageWriter cause it to print at 10 characters per inch (cpi) with a vertical spacing of 6 lines per inch. AppleWorks leaves that setting in effect when you quit the program.

Now imagine that you are using an ImageWriter II with the DIP switches set to print at 12 cpi (the factory setting). When you print your first document, AppleWorks sets the "soft-switch" so the printer works at 10 cpi. Even after you quit AppleWorks, your ImageWriter will continue to print at 10 cpi until you turn the printer off and back on. There is nothing wrong with your printer; you are seeing one of the ways AppleWorks resets the defaults on your system.

tomization process, which I will describe in great detail next month, changes the data stored in SEG.ER but does not change the driver in SEG.PR.

4. It stores information for up to six Special Codes that can use the features available in your printer but not normally supported by AppleWorks.
5. It stores the current date. (You can over-ride this feature by changing the switch that activates DontSaveER. That lets you run AppleWorks from a write protected disk, but it also means AppleWorks will not remember any changes you make to your preferences.)

AppleWorks 3.0 still uses the memory addresses reserved for the ProDOS Quit Code, but it stores that code in a different area of memory. It does not write the Quit Code to SEG.ER or SEG.PR on the Startup Disk.

Several of the drivers in SEG.PR serve more than one printer. For example, AppleWorks 1.x and 2.x used the same driver to control the Apple DMP and ImageWriter printers. AppleWorks 3.0 uses one driver to control the ImageWriter II and Image-

More about the Quit Code

ProDOS automatically installs up to 768 bytes of code in a reserved portion of memory and uses that code to launch your next application without rebooting your computer. If the area reserved for Quit Code does not contain valid instructions for handling the computer after you quit a program, your computer will crash into the monitor level and you must reboot your system.

Early versions of ProDOS did not offer a user-friendly interface for this task, so Alan Bird, Bob Sander-Cederlof, Glen Bredon, Cecil Fretwell, Quality Computers, and others, wrote programs that substituted an easier-to-use Quit Code for the code included with ProDOS. (Bird's routine, called Bird's Better Bye, was circulated throughout the AppleWorks community.) The current version of ProDOS includes a modified Quit Code which closely resembles the ones written by Bird and Sander-Cederlof.

Lissner wanted to use the reserved area of memory to store AppleWorks code, so he copied the contents of that memory area into the SEG.PR file, then over-wrote that area of memory with AppleWorks. He copied the Quit Code back into memory just before quitting AppleWorks. This approach works with all the Quit Codes developed for ProDOS.

Certain AppleWorks enhancements (e.g., Pinpoint's Key Player and Beagle Bros' UltraMacros) use other reserved areas of memory. As a result, these programs can generate conflicts with AppleTalk and/or AppleShare, both of which use memory areas that were reserved, but not actually used by ProDOS, when Lissner wrote AppleWorks. (The conflicts arose later when Apple developed the code necessary for AppleTalk and AppleShare.) Thus, both programs were initially incompatible with AppleTalk. Versions 3.0 and 3.1 of UltraMacros resolve some of the conflict, so the program now works with AppleTalk. Fortunately, the problems reported with AppleShare do not affect many users.

Saving the contents of reserved memory and restoring it later will not resolve the Key Player and UltraMacros conflicts because AppleTalk and AppleShare must remain active when you use AppleWorks.

Inside AppleWorks...

Writer LQ printers, and a second driver for the Apple DMP and ImageWriter I printers. Thus, although AppleWorks 3.0 lists 31 individual printers on the Add a Printer Menu, SEG.PR contains only 16 sets of printer codes.

Although this design saves space in SEG.PR and SEG.ER, AppleWorks can only support the features that are common to all the printers that share the driver; the program cannot support features that are unique to a single printer.

Next month I will describe how to overcome that limitation and will suggest some ways to enhance the Epson and ImageWriter printer drivers.

[John Link is a Professor of Art at Western Michigan University. He is the developer of SuperPatch and LockOut and is an AppleWorks consultant.]

Bulletin Board News

On August 1, NAUG will move its multi-line AppleWorks Bulletin Board, the Electronic Forum, from its current location in Flint, Michigan to Lewisburg, Tennessee. The board will be out of service from 8AM August 1 until 8AM August 3. The new telephone number will be (615) 359-8238. We apologize for any inconvenience this may cause members; we are making this move so Tim Harrison can continue as the System Operator.

AmperMacros

Office Productivity Software
P.O. Box 1042, Mahomet, IL 61853-1042
Enhancements for UltraMacros Programming

Disk #1 Includes:

- Floating Point Math
- Nested Begin/Rpt Loops
- Calculated Gotos
- 3 Data Base Functions
- + 9 more

Disk #2 Includes:

- 4 Input Functions
- 3 Time Functions
- 4 Date Functions
- Arrays (% and \$)
- + 5 more

Each Disk: \$25, includes s/h. Specify: 5.25" or 3.5" format.
Requires AWKS 3.0 and TO UltraMacros 3.1. Illinois add 6.25%.

Special Offers

Special Offers for NAUG Members

ActaSoft

ActaSoft recently announced the release of Family Finance, a home financial management program that runs within AppleWorks. Family Finance makes it easy to use AppleWorks to write checks, reconcile your checkbook, post cash and credit card purchases, maintain your tax records, and track your family budget. The program, which has enhanced budgeting and reporting capabilities, is more compact than earlier versions of the company's AlphaCheck program. Family Finance, which can run on 128K systems equipped with a single disk drive, requires AppleWorks 3.0.

Family Finance sells for \$49.95, however NAUG members can buy the program directly from ActaSoft for \$29.95 plus \$3.50 s/h. Identify yourself as a NAUG member and provide your NAUG membership number when you order. Updates from earlier versions of AlphaCheck cost \$7.50 plus \$2.50 s/h.

NAUG members can also get significant discounts on AlphaCheck Plus, ActaSoft's bookkeeping and financial management system for small businesses and individuals with complex finances. AlphaCheck Plus lists for \$68, but NAUG members can buy the program for \$39.95 plus \$3.50 s/h directly from ActaSoft.

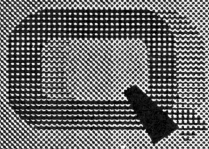
ActaSoft maintains a "satisfaction guaranteed or your money back" policy for NAUG members.

[ActaSoft, 19700 Wells Drive, Woodland Hills, California 91364; (818) 996-6731.]

inCider

NAUG members who use Macintosh computers can qualify for free six-month subscriptions to inCider/A+ magazine. For an application form, send a self-addressed stamped envelope to inCider Offer, NAUG, Box 87453, Canton, Michigan 48187.

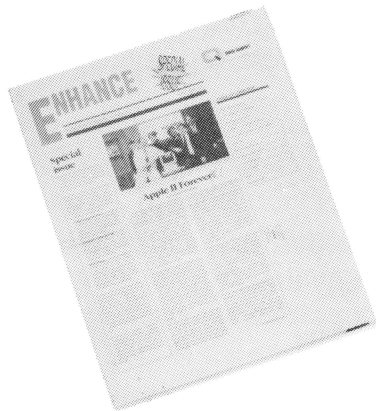
Quality Computers Apple II Overnight 1-800-443-6697



Quality Computers™

POWER FOR PERFORMANCE

ENHANCE



Enhance is Quality Computers bi-monthly informative-technical-entertaining newsletter. *Enhance* gives you the kind of information you need to make your Apple the effective work/educational tool it was designed to be, like product reviews and comparisons, new product announcements, news, and two special sections, Enhancing Education — written by teachers for teachers, and Computer Club Corner — designed to spark interest in User Groups across the country.

Enhance also includes our catalog — full of all the hardware and software you need for your Apple II. Quality Computers catalog includes detailed product descriptions and MONEY-SAVING COUPONS.

Quality Computers has been publishing *Enhance* for over 4 years. It's free to all QC customers, or you can call for your free subscription today!

"... an excellent publication."

Wanda Bullion
SJAUG User Group, Cherry Hill NJ

"Now that we have *Enhance* by our side, we feel confident our Apple II will be a member of our family for a long time to come."

Doug & Sandy Fish
Rhinelander, WI

"... you, the editors, are doing an excellent job. In each issue of *Enhance* I get answers that help me out.

James T. Clark
Wyoming, MI

\$10

\$10

NAUG MEMBERS!

Get \$10 Off

Your next order over \$100 from
Quality Computers

\$10

\$10

HARD DRIVES

QUALITY COMPUTERS	
40 MEG. (Conner)	549.95
100 MEG. (Conner)	749.95

MEMORY CARDS

APPLIED ENGINEERING	
RAMWORKS III	
256K	139.95
512K	159.95

C.V. TECHNOLOGIES	
GS MEMORY BOARD	
1 MEG.	149.95
2 MEG.	209.95



QUALITY COMPUTERS
The Q Drive is simply the best SCSI hard drive available. Automatically formats itself for file or IIGS, and comes with 15 MEG of free software.

Q Drive 40 \$549.95

MEMORY CHIPS

APPLE II	
256K (bank)	19.95
1 MEG. (bank)	69.95

DISK DRIVES

APPLIED ENGINEERING	
3.5"	199.95
5.25"	129.95

PRINTERS

HEWLETT-PACKARD	
DeskJet 500	579.95

PANASONIC	
Panasonic 1180	199.95

MODEMS

SUPRA CORP.	
SupraModem 2400, Cable, and TIC	134.95

MONITORS

12" Monochrome	99.95
----------------	-------

MAGNAVOX	
Magnavox RGB	299.95
Custom Cable (GS)	19.95

INPUT DEVICES

APPLE	
AppleMouse IIe	119.95

CH PRODUCTS	
Mach III Joystick	29.95

LASER	
Laser Mouse IIc	49.95

VITESSE	
Quickie Scan (IIe, IIGS)	199.95

ACCESSORIES

APPLE	
IIe Enhancement Kit	59.95

APPLIED ENGINEERING	
TransWarp GS	229.95
Power Supply IIGS	89.95

KENSINGTON	
System Saver IIe	59.95
System Saver GS	69.95

QUALITY COMPUTERS	
Power Supply (IIe)	59.95

ZIP TECHNOLOGY	
Zip GS	189.95

HYPERMEDIA

APPLE	
HyperCard IIGS	79.95

ROGER WAGNER	
HyperStudio GS	82.95

TECHWARE	
Tutor-Tech (All Apples)	149.95

WORD PROCESSING/ DATA BASE/ SPREADSHEET

CLARIS	
AppleWorks 3.0	169.95
AppleWorks GS	199.95



QUALITY COMPUTERS
RepairWorks rescues you from the grief of damaged AppleWorks files by recovering and repairing those files. InCider Editors' Choice.

RepairWorks .. \$34.95

SENSIBLE SOFTWARE	
Sensible Grammar	52.95

STONE EDGE	
DB Master Pro	189.95

WESTCODE	
InWords (OCR)	79.95

BUSINESS & FINANCE SOFTWARE

ACTASOFT	
Alpha Check Plus	32.95

MECA	
Managing Your Money	99.95

COMMUNICATION SOFTWARE

Q LABS	
TIC	39.95

INSYNC	
ProTERM v.2.2	79.95

EDUCATIONAL SOFTWARE

THE LEARNING COMPANY	
Reader Rabbit	22.95
Children's Writing & Publishing Center	32.95

BRØDERBUND	
Where in the World is Carmen Sandiego?	25.95
The Playroom	24.95

WEEKLY READER	
Sticky Bear Numbers	24.95
Talking Sticky Bear ABC's	29.95

MECC	
Number Munchers	24.95
Oregon Trail	24.95

GRAPHICS SOFTWARE

BAUDVILLE	
Award Maker Plus	29.95

BEAGLE BROS.	
Platinum Paint GS	59.95

BRØDERBUND	
Bannermania	24.95
The New PrintShop II GS version	29.95 36.95

TIMEWORKS	
NEW! Publish It! 4	89.95

BEAGLE BROS. TIMEOUT SERIES

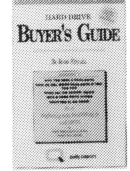
MacroEase	25.95
DeskTools, FileMaster, PowerPack, SideSpread, TextTools, or Thesaurus QuickSpell, SpreadTools, or UltraMacros	40.95
SuperFonts, SuperForms Outliner, or Telecomm ReportWriter	42.95 48.95
Graph	52.95

UTILITIES & LANGUAGES

BEAGLE BROS.	
NEW! Companion Plus	32.95

BYTEWORKS	
Orca/M or Orca/C	79.95
NEW! Talking Tools	39.95

Q LABS	
RepairWorks	34.95
NEW! SuperPatch 8.0	34.95
RAMUP, EasyDrive, or TIC	39.95
Ruth Witkin's Best	24.95



QUALITY COMPUTERS
Get the facts before you buy a hard drive — get the *Hard Drive Buyers' Guide*. Packed with information and statistics.

**Hard Drive
Buyers' Guide \$6.00**

SOFTSPOKEN	
CrossWorks	69.95

VITESSE	
Salvation Series	
Exorciser	29.95
Deliverance	29.95
Bakkuip	29.95
Renaissance	34.95
Wings	49.95
Supreme (All 5)	99.95
NEW! Harmonie 2.0	32.95

NAUG MEMBERS: Get \$10 off your next order over \$100

A Two-File Switcher

by Keith Johnson

Although AppleWorks lets you store up to 12 files in desktop memory, the program only displays one file at a time. To work on two documents, you must use the Apple-Q command to switch between files.

This article describes three macros that let you toggle between any two desktop files with a single keystroke.

Follow these steps to use the macros:

1. Add the macros to your macro file and compile them.
2. Issue an <oa-Q> and select one of the two files you want to toggle between.
3. Enter a <sa-{}> (Solid Apple-Shift-[). A message will appear to indicate that the current file is file #1. Press any key to erase the message

and continue.

4. Issue another <oa-Q>, select the second file, and enter a <SA-}>. A message will tell you that this is file #2. Press any key to erase the message.
5. Press <sa-l> (Solid Apple-Shift-\) to switch between the two files.

You can return to step #2 or 4 and redefine either of the two files at any time.

Programming Details

These macros use the “peek #openfile” command to store the Desktop Index number of the first file in variable b and the number of the second file in variable c. That poses a problem if you run other macros that use variables b or c because those macros will overwrite the contents of these vari-

Figure 1: Macro that Switches Files

```
{:all :
    { Define the macro that captures the first file number. }
    getvar 8 :
    { Retrieve variable set 8. }
    b = peek #openfile :
    { Store the Desktop Index number of the first file. }
    putvar 8 :
    { Resave variable set 8. }
    msg ' Your first file is #' + str$ b + '. (key) ' : { Display a message. }
    a = key : msg "">!
    { Let the user clear the message. }

}:all :
    { Define the macro that captures the second file number. }
    getvar 8 :
    { Retrieve variable set 8. }
    c = peek #openfile :
    { Store the Desktop Index number of the second file. }
    putvar 8 :
    { Resave variable set 8. }
    msg ' Your second file is #' + str$ c + '. (key) ' : { Display a message. }
    a = key : msg "">!
    { Let the user clear the message. }

|:all :
    { Define the macro that switches files. }
    onerr stop :
    { Stop if anything goes wrong. }
    getvar 8 :
    { Retrieve variable set 8. }
    x = peek #openfile :
    { Store the current file number in variable x. }
    a = b :
    { Temporarily store the first file number in variable a. }
    if x = b :
    { If you are already in the first file... }
        a = c :
        { ...store the second file number in variable a. }
    elseoff :
    { Then... }
    oa-Q :
    { ...go to the Desktop Index and... }
    print a : rtn>!
    { ...select other file. }
```

My Favorite Macro...

ables. The solution is to use the <putvar> command to store the contents of all the variables in a separate variable set. (I chose variable set 8, but you can use any of the eight available "slots" to store the contents of these variables.)

The <getvar> command in the <sa-> and <sa-}> macros recalls the correct set of variables and lets you change the value of variable a or variable b. The <getvar 8> instruction in the <sa-}> macro insures that the contents of variable set 8 are active when you run the macro.

The <sa-}> macro does not change the contents of any of the variables and thus does not need a <putvar> command. (a is the only variable that is not changed by a "getvar" or "putvar" command. This macro uses variable a to (1) temporarily capture the keystroke that clears the message, and (2) temporarily store data in the <sa-}> macro.)

Limitations

These macros do not perform any error checking. For example, if you do not define a second file, the macro will always display the first file and will not offer suggestions to help you identify the problem.

Removing files from the desktop can change the Desktop Index numbers of the two files you select in the <sa-> and <sa-}> macros. If that happens, the macros will take you to the wrong files.

These macros can conflict with other macros that store their contents in variable set #8. You can overcome this problem by re-defining the <putvar> and <getvar> commands to store the contents of variables a and b in a different variable set.

Finally, "#openfile", <putvar>, and <getvar> require UltraMacros 3.0 or later. I would like to hear from my fellow members who determine how to revise these macros to run under earlier versions of UltraMacros.

[Each month NAUG publishes a description of one of its favorite macros. Submit your most interesting, useful, or unique macros and a description of what they do and how they work to: My Favorite Macro, NAUG, Box 87453, Canton MI 48187.]

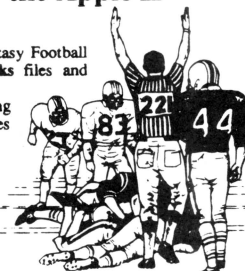
Keith Johnson is Associate Director of the Fleischmann Planetarium at the University of Nevada.]

Fantasy Football for the Apple II

Welcome to FantasyWorks!!

Everything you'll ever need to run your own Fantasy Football League as commissioner. Includes AppleWorks files and templates for managing a 4 to 12 team league:

- Automated Standings
 - Financial Tracking
 - Fantasy Rules
 - Fantasy Season Schedules
 - Complete 1991 NFL Players DataBase
 - Report Generation and much more.
- Requires AppleWorks 2.0 or higher.



FantasyWorks also includes:

- TimeOut UltraMacro TaskFiles for Computing Fantasy Points with multiple scoring methods, Automatic Generation of League Rosters, and more. Requires TimeOut UltraMacros Enhanced AppleWorks.
- Communications macros that automatically capture NFL statistics from Computer Sports World for Fantasy Point scoring. Macros work with popular communications products such as DataTerm, Point-to-Point, ProTerm, ReadyLink, and Talk-Is Cheap. Requires specific communications software package and Hayes AT compatible modem.
- Templates and tips for creating your own Weekly League Newsletter using Publish It! Desktop Publishing Software. Requires Publish It! 2 or 3.
- Over 30 different Fantasy League Forms to get you started.

All this plus an in-depth Fantasy Football League Manual that fully covers the use of this software and explains what Fantasy Football is all about. Don't delay! The NFL season is only a few weeks away.

FantasyWorks™

Elite Fantasy Football League Management System - from FantasyWorks Software for the Introductory Price of \$79.95 + S&H. Demo disk \$5.

Please call or write for a free brochure:



FantasyWorks Software, Inc.
P.O. Box 57
Bedford, TX 76095-0057
(800) 727-4103

Apple II is a registered trademark of Apple Computer, Inc. TimeOut is a registered trademark of Beagle Bros. Inc. All other products are trademarks of their respective companies.

FAMILY TREE

A GENEALOGISTS PROGRAM

Genealogical Recreation

Let FAMILY TREE automatically link together your family's history into a fast, fun, low priced, and extremely easy to use database. Documentation is on the disk, along with many help screens and friendly prompts. FAMILY TREE automatically creates a wide variety of charts, group sheets, AppleWorks WP and DB files, and much more. FAMILY TREE even determines relationships! Automatic conversion of LDS PAF data files is provided. No doubt about it, this is a BEST BUY in genealogy software for the Apple IIe (enhanced), IIc, IIc+ and IIGS. FAMILY TREE will install itself onto your hard drive or /RAM disk (500K or larger) if you desire. Includes a 30 day money-back satisfaction guarantee!!! SASE for more information.

For a copy of the latest version (please specify 3.5 or 5.25 inch disk) send \$39.95 (includes US postage - for foreign postage please add \$5). Registered owners may upgrade, at any time, for \$10

* California residents please add appropriate Sales Tax
Phone: 805-684-3366 (info only - no phone orders)
Hours: 9 AM to 1 PM (Pacific Time) Monday thru Saturday



Robert M. Merrill
6180 Via Real, #25
Carpinteria, Ca 93013-2863

AppleWorks® 3.0 Has A New Best Friend.

*Introducing Companion Plus™ from Beagle Bros.
(formerly AW 3.0 Companion)*



Customize AppleWorks 3.0 for your own special needs with Companion Plus, the official AppleWorks customizing program from the developers of AppleWorks 3.0. Start up the Companion Plus disk and you'll be greeted by familiar AppleWorks-style menus. Just select the changes you want made and you're finished. Your own copy of AppleWorks will be personalized to your preferences!

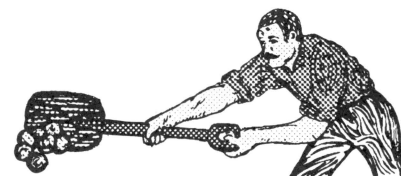
New Features:

- Display date and time on your AppleWorks screen.
- Disable destructive options for a classroom environment.
- Change the location of the main dictionary.
- Auto-copy the dictionary to a RAM disk.
- Enhance the Spelling Checker's capabilities.
- Tell at a glance what patches have been added to AppleWorks.
- Be notified when you may not have the most current version of a patch.



AW 3.0 Companion Options:

- Change the obnoxious AppleWorks beep to something more pleasant.
- Change default printer options for all new word processor files.
- Speed up loading and recalculating spreadsheet files.
- Leave the cursor where it is after canceling record selection rules.
- Use expanded memory as both Desktop memory and a RAM disk.



A Companion for Life

Companion Plus could prove to be the most loyal friend you've ever had. Once you have the ability to customize AppleWorks in so many ways you'll be convinced that it's a friendship that will last for a long time to come.

Companion Plus is available for **only \$49.95** from your favorite software dealer or from Beagle Bros (800) 345-1750.



Upgrade Information

Companion Plus adds even more terrific features than previously available on AW 3.0 Companion. To receive an upgrade send us your AW 3.0 Companion disk (3.5" or 5.25") and \$20.00 plus \$3.50 shipping and handling. Please allow three weeks for delivery.



Beagle Bros, Inc.

6215 Ferris Square, Suite 100
San Diego, CA 92121
(619) 452-5500
FAX (619) 452-6374

Companion Plus is a trademark and Beagle Bros and the Beagle Bros logo are registered trademarks of Beagle Bros, Inc. AppleWorks is a registered trademark of Apple Computer, Inc., licensed to Claris Corp.

U N L E A S H T H E P O W E R ®

News and Special Offers

Data Base User Group

The Data Base User Group announced the release of the second in its series of Quote Disks. Each disk contains a data base with 1001 clever one or two-line quotations you can use in speeches, day calendars, greeting cards, posters, reports, and letters. The disks are available in either 3.5-inch or 5.25-inch format and cost \$6 for one disk, \$11 for the two-disk set. [*Data Base User Group, 11 Bellflower Circle, Fairport, New York 14450.*]

FantasyWorks Software

Fantasy Football is the ultimate game for football enthusiasts. Each player becomes a team "owner" responsible for selecting a team of NFL all-stars. Each week, the league "commissioner" collects data about the performance of the players; team owners earn points based on the performance of the players on their team.

FantasyWorks is a collection of more than 60 AppleWorks templates and macros that help the commissioner collect the necessary data and manage the league.

FantasyWorks includes more than 300 pages of documentation to help you start and run a league (more than 150 pages of the manual are appendices with examples and printouts of the macros on the disk). The FantasyWorks package even includes Publish It! templates to help you produce a weekly league newsletter.

Contact the company for more information about Fantasy Football and FantasyWorks. NAUG member Edward Girard, President of FantasyWorks Software, is knowledgeable about both Fantasy Football, AppleWorks, UltraMacros, and his product.

FantasyWorks runs with AppleWorks 2.0 or later and requires TimeOut UltraMacros. The program runs on any AppleWorks-compatible computer, although the company recommends at least two 5.25-inch disk drives or a single 3.5-inch drive.

FantasyWorks normally sells for \$79.95. Until September 1, NAUG members can buy Fantasy-

Works directly from the publisher for \$59.95 plus \$6 s/h. A version that does not require TimeOut UltraMacros costs an additional \$10. (Canadian members, add \$1 s/h. All prices in US Dollars.) The company maintains a 30-day "satisfaction guaranteed or your money back" policy. Identify yourself as a NAUG member and provide your NAUG membership number when you order. The company accepts Visa and MasterCard. [*FantasyWorks Software, Box 57, Bedford, Texas 76095-0057; (800) 727-4103.*]

JEM Software

JEM Software recently announced its latest release, Michael Jonathan Brandt, which shipped on April 7, 1991. Shipping weight is 8 lbs, 1 oz.

Earlier JEM Software releases include Heather Renee (1985) and Erika Ellen (1987), both of which have been extensively debugged, although some additional bugs are expected in about ten years. [*JEM Software, 7578 Lamar Court, Arvada, Colorado 80003.*]

Macmillan Computer Publishing

NAUG members can now buy books published by the Macmillan Computer Publishing Company's Que and Howard Sams divisions for 20% off the regular retail price. Both Que and Howard Sams publish books about AppleWorks and AppleWorks GS.

Although similar discounts are available from discount bookstores, NAUG members without access to discount sources can now get these special prices directly from the publisher. Contact Diana David at Macmillan for a free copy of the Que and Howard Sams catalogs. [*Macmillan Computer Publishing, 11711 North College Avenue, Suite 140, Carmel, Indiana 46032; (800) 428-5331 x. 2959.*]

Omnishore

NAUG members can now buy C-model and D-model Sider hard disk or tape drives or get their First Class Peripherals Sider drives repaired or upgraded at special NAUG member prices.

Omnishore will upgrade NAUG members' 10-megabyte or 20-megabyte Sider drives to a D2T 20-megabyte model or to a D4T 40-megabyte model for \$325 or \$375 respectively, plus \$15 s/h. (Non-members should add \$25 to these prices.) The upgrade includes a new Seagate drive mechanism (with 28ms access time and auto head parking), new controller, and new interface card. Upgrades include a one year warranty.

Omnishore also offers NAUG members a \$25 discount on all other upgrades and orders for new C-model and D-model drives. Identify yourself as a NAUG member and provide your NAUG membership number when you contact Omnishore.

Call Bob Lawhead in Technical Support at Omnishore before placing your order. Mr. Lawhead will determine if there is a mechanical or electrical problem with your drive and will describe the services available for your unit.

Our thanks to NAUG member Norm Hirsch of Des Plaines, Illinois for telling us about Omnishore.
[Omnishore, 1700 Forest Way, Carson City, Nevada 89706; (702) 687-2800; Fax: (702) 687-2836.]

Timeworks

Timeworks recently released Publish It!4, the newest version of the company's popular page layout program. Publish It!4 lets AppleWorks users prepare professional-quality newsletters, manuals, and other documents.

Publish It!4 offers all the features of Publish It!3, including the Macintosh user interface, flexible page layout, built-in fonts, high quality output (including support for Apple LaserWriter printers), a built-in word processor, ability to import AppleWorks, Print Shop, and Dazzle Draw files, a built-in graphic toolbox, control of kerning and leading, automatic text flow and word wrap, multiple size page views, and built-in quick keys.

Publish It!4 adds support for HP LaserJet and DeskJet printers, automatic hyphenation, the capability to export ASCII text files, and automatic duplication of all frames and article links within a page. Publish It!4 also lets you save documents as templates, format disks without leaving the program, select all objects on the page, assign file

names to PostScript files you print to disk, and double-click for object specifications.

Publish It!4 is compatible with the company's Accessory Packs including Font Pack 1 and Font Pack 2 (each includes eight headline, text, and special effect typefaces in sizes from 10 to 72 point), People, Places and Things (240 ready-to-use graphics for home, school, and business users), Education Graphics (more than 200 education-oriented graphic images), Symbols and Slogans (more than 450 graphics for commercial and business uses), and Design Ideas (83 templates you can use or modify for your own applications).

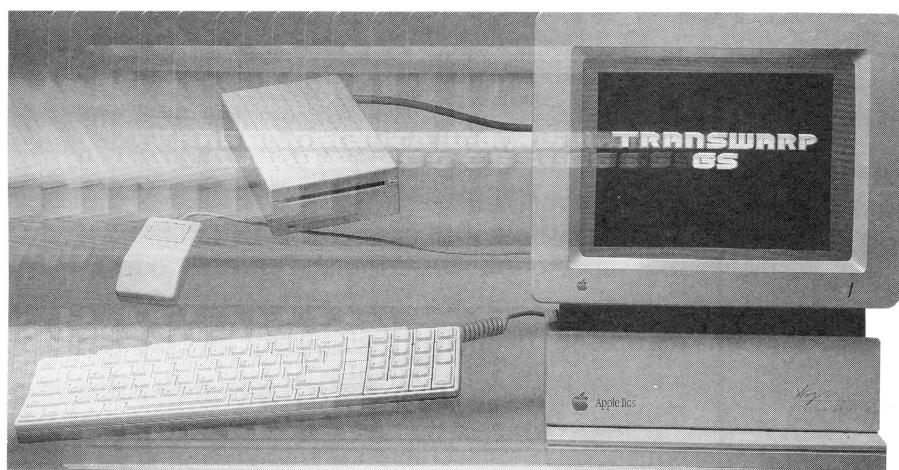
[A note about fonts: Publish It!3 and 4 use special 72 x 120 high density fonts. Although both programs accept standard Apple IIGS fonts, Publish It! changes the aspect ratio of those fonts. Most users either do not notice or do not object to the changed shape of the letters. However, you should compare the output printed with Publish It! and standard fonts to learn about these differences.]

Publish It!4 runs on any enhanced Apple IIe, IIC, IIC Plus, or IIGS computer or compatible with at least 128K of RAM, a mouse or joystick, and a 5.25-inch, 3.5-inch, or hard drive.

Publish It!4 has a suggested list price of \$149.95; the Accessory Packs list for \$39.95 each. However, until September 30, NAUG members can buy Publish It!4 and an Accessory Pack of their choice directly from Timeworks for \$80, postpaid. NAUG members can buy additional Accessory Packs for \$15 each or any three Packs for \$40, postpaid. (These are special NAUG offers; you must identify yourself as a NAUG member and give your NAUG membership number when you place your order.) Timeworks accepts Visa, MasterCard, and American Express.

Owners of earlier versions of Publish It! can update to Publish It!4 for \$29.95 plus \$4.70 s/h. Update orders by mail only; include the title page from your Publish It! manual and specify whether you want 5.25-inch or 3.5-inch disks when you order.

[Timeworks, 625 Academy Drive, Northbrook, Illinois 60062; (708) 559-1300; Orders only: (800) 323-7744.]



**TWcs 32K Cache
Now Shipping!**
TransWarp for //e & //+ Also Available

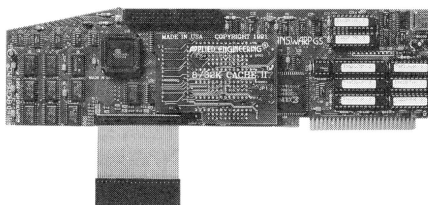
Satisfy your need for speed . . . Again.

TransWarp GS™ more than doubles the processing speed of your IIgs. Incorporating not two, but five layers of circuitry, it's the most technologically advanced board we've ever produced. And it's the best thing to happen to the IIgs since GS/OS.

The difference isn't merely noticeable, it's inspiring. With the TransWarp GS installed, your IIgs rips along at 7MHz, compared to the IIgs's native 2.6. You'll be able to speed through your huge database files in no time. Windows fly open. Folders snap shut. Finish your work faster. Run games in a *flash*.

Fully Compatible with all standard hardware and software. Since its first shipment in February of '89, TransWarp has proven it's reliability in more than 17,000 IIgs computers. Running software and driving hardware at speeds you never thought possible.

No switches or jumpers. TransWarp GS handles the necessary speed changes with no effort on the user's part. Just slip it into slot 3 or 4 (the card doesn't override either slot's function), set your control panel and prepare yourself for warp speed.



And now, the accelerator board that brought thousands of IIgs computers up to speed, is even faster. The **32K Cache Option** gives the TransWarp GS a 22% speed boost. A difference you will instantly appreciate. And once you've experienced the increased speed, you won't be able to compute without it.

New TransWarp GS buyers can purchase the option already installed. If you already have a TransWarp GS, you can upgrade for a low cost. So, if you don't already own a TransWarp GS, get one and be amazed.

If you already own one, add the 32K Cache and satisfy your need for speed . . .
Again.

Order Today! To order or for more information, see your dealer or call (214) 241-6060 today, 9 am to 6 pm, M-F. Or send

check or money order to Applied Engineering. MasterCard, VISA and C.O.D. welcome. Texas residents add applicable sales tax.

TransWarp GS Accelerator
8K cache \$299

TransWarp GS Accelerator
32K cache \$399

32K Cache Option \$109

TransWarp for //e & //+ \$119

AE
Applied Engineering®

The enhancement experts.

A Division of AE Research Corporation

(214) 241-6060

P.O. Box 5100
Carrollton, TX 75011

**Made
IN THE
USA**

© 1991. AE Research, Inc. All rights reserved. Brand and product names are registered trademarks of their respective holders.

Prices subject to change without notice. Brand and product names are registered trademarks of their respective holders.

New Disks in the NAUG Library

Clemesha's AppleWorks Accessories Disk

The NAUG Public Domain Library now includes Clemesha's AppleWorks Accessories, a disk filled with AppleWorks enhancements developed by Dr. Barclay Clemesha, an atmospheric physicist with the Brazilian Space Research Institute.

Clemesha's AppleWorks Accessories Disk includes six TimeOut modules, two stand-alone utilities, and 17 sets of useful macros. The TimeOut modules include Accent Printer (prints accented foreign languages from within the word processor), Text Highlighter (highlights all boldface and/or underlined text), and Print Tokens (converts print formatting commands in a text file to AppleWorks print commands).

The disk includes TO.RS232, TO.MOUSE, and TO.TAB which appeared on NAUG's Clemesha's TO.MODULES Disk. Descriptions of these modules appear on page 37 of the January 1991 issue of the *AppleWorks Forum*.

The stand-alone utilities include DataFit, a regression analysis program for the AppleWorks spreadsheet. DataFit performs simple linear regression, multiple linear regression, polynomial regression, harmonic regression, and cubic spline fit.

TextSpread converts tabular data in a text file into an AppleWorks spreadsheet file.

The macros include Clip.Window (provides a nine-line "push down" clipboard), Multi.Clip (offers nine one-line clipboards), Print (prints each line you type into the word processor), Repeat (inserts repeated strings or deletes columns in the word processor or spreadsheet), Screen.Freeze (freezes the text on one part of the word processor screen), Screen.Write (repeats a character in any direction on the word processor screen), Expert (saves files without clearing the document from the screen), Date (prints date and day of the week, converts date to scientific format, prints the date in foreign languages), Epson (contains printer commands for Epson printers), IBM (lets you use the extended character set on IBM Proprinters), Math (converts

spreadsheet values to scientific notation; computes factorial N), Poke.Character (lets you insert any ASCII character in the word processor), Quick (provides Solid-Apple equivalents for commands like superscript, subscript, and special codes), Statistics (computes standard deviation, linear regression, frequency distribution, and harmonic analysis within the spreadsheet module), Swap (changes consecutive characters or words), and a collection of miscellaneous spreadsheet and word processor macros.

Clemesha's AppleWorks Accessories, which includes the TimeOut modules on the Clemesha's TO.MODULES disk and supersedes that disk, requires AppleWorks 3.0 enhanced with UltraMacros 3.01. The Clemesha's AppleWorks Accessories Disk is shareware; the author requests a \$10 payment if you use the files on the disk. You send that payment directly to the author after examining the files on the disk; do not send the payment to NAUG.

Computer Dictionary Disk

NAUG's Computer Dictionary Disk contains a custom spelling dictionary with more than 1,700 computer-related words for TimeOut QuickSpell and the AppleWorks 3.0 spelling checker. The disk includes an AppleWorks data base file that makes it easy to edit and maintain the dictionary. Complete documentation appears in a word processor file on the disk. This is an excellent dictionary for anyone who writes about computers or computing.

Our thanks to A+/inCider Contributing Editor Joe Kohn for submitting this disk to the NAUG library.

File Card Menu Construction Kit

The NAUG Public Domain Library now includes Will Nelken's File Card Menu Construction Kit Disk. The File Card Menu Construction Kit uses TimeOut UltraMacros to make it easy to prepare personalized AppleWorks file card menus that appear on the screen. You customize these menus for your own applications and then use the menus to perform any AppleWorks or UltraMacros opera-

Public Domain Updates...

tion, such as loading files onto the desktop, saving to selected subdirectories, or launching UltraMacros task files. The disk includes sample files and complete instructions. Our thanks to long-time NAUG member Will Nelken for donating this disk to the NAUG Public Domain Library.

The File Card Menu Construction Kit requires AppleWorks 3.0 and UltraMacros 3.1 or later.

Fun with AppleWorks

The Fun with AppleWorks Disk demonstrates the power that TimeOut UltraMacros adds to AppleWorks. The disk includes two games programmed entirely in UltraMacros that run within AppleWorks. An article on the disk describes how to display mousetext characters within AppleWorks word processor documents. The disk also includes a demonstration version of AlphaCheck, ActaSoft's accounting program that works within AppleWorks.

Fun with AppleWorks will interest UltraMacros programmers who can learn valuable programming techniques by examining the files on the disk and users who want to take a break from their constructive use of AppleWorks. Our thanks to Don Aqualino of ActaSoft for donating the disk to the NAUG Public Domain Library.

Fun with AppleWorks requires AppleWorks 3.0 enhanced with UltraMacros 3.1 or later.

SuperFonts Demonstration Disk

The SuperFonts Demonstration Disk demonstrates how you can use TimeOut SuperFonts to prepare on-screen presentations. You load the file EVENING.AW onto your desktop and then print to the screen with TimeOut SuperFonts. The resulting presentation, which includes figures and graphics, demonstrates many SuperFonts tricks and suggests creative applications of this popular AppleWorks enhancement. SuperFonts owners who examine the EVENING.AW file will learn interesting and valuable techniques to help them enhance their output and astound their fellow AppleWorks users.

Our thanks to Donna Takayesu of Hamilton, Ontario, Canada for preparing this disk for the NAUG Public Domain Library. Ms. Takayesu's article entitled "How to Use SuperFonts to Enhance

Your Presentations" in the November 1989 issue of the *AppleWorks Forum* describes some of the techniques she uses in the files on this disk.

The SuperFonts Demonstration Disk requires AppleWorks 3.0, TimeOut SuperFonts, and an Apple II-compatible computer with enough memory to offer at least a 55K AppleWorks desktop.

How to Get Disks

Unless otherwise noted, all disks are available in both 5.25-inch (\$4) and 3.5-inch (\$6) format, plus \$2 s/h per order. Order from Public Domain Library, NAUG, Box 87453, Canton, Michigan 48187. All NAUG disks are also available for downloading from NAUG's electronic bulletin board, the Electronic Forum, and from the NAUG areas on CompuServe, America Online, and GENie.

Corrections

Please make the following corrections to the macros published in the July 1990, August 1990, and July 1991 issues of the *AppleWorks Forum*:

July 1990, Page 21, Figure 2: The frequency distribution macro will not compile as published because UltraMacros only stores positive integers between 0 and 65355 in variables.

Make the following changes to main macro to shift the decimal point:

Original Line	Corrected Line
K = val \$1	K = 100 * val \$1
if K > 89.49	if K > 8949
if K > 79.49	if K > 7949
if K > 69.49	if K > 6949
if K > 59.49	if K > 5949

August 1990, Page 17, Figure 1: The screen shot macro contains ">" and "<" characters in the comments and will not compile. Replace these characters with quotation marks so the line in the middle of the figure reads:

```
A = A + 1 : { ...increment "putvar" counter... }
```

July 1991, Page 25, Figure 1: Add : endif : to the last line in the #3 bracket. That line should read

```
then $2 = "00" : endif :
```

Note that NAUG introduced these errors during the extensive editing process to which we subject all articles; they are not the responsibility of the developer of the macros or the author of the articles. Our thanks to Bill Neef of Grass Lake, Michigan for reporting these corrections to NAUG.

Beagle Buddy Update

NAUG's Beagle Buddies continue to provide members with updates to their TimeOut, ProSel, and JEM disks.

TimeOut Disks

Figure 1 lists the current version numbers for each TimeOut disk as of July 1, 1991. Beagle often updates one or more modules on a disk without changing the disk number; Figure 2 lists the version number of each file on every disk.

Note that Beagle replaced AW 3.0 Companion with Companion Plus. Upgrades to Companion Plus cost \$23.50 directly from Beagle.

Quickspell 3.0.1 fixes a bug that can keep the program from finding the Custom and Main Dictionaries. According to Beagle, the problem occurs infrequently; most users will not need to update to the new version of QuickSpell.

TimeOut updates cost \$3 for the first 5.25-inch disk and \$2.50 for each additional 5.25-inch disk;

\$3.50 for the first 3.5-inch disk and \$3 for each additional 3.5-inch disk. Canadian prices are 50 cents higher per disk. Send your payment *and your original disks* to any one of the following NAUG Beagle Buddies:

Figure 1: Disk Version Numbers — July 1991

Companion Plus*	1.0.1	MacroTools II	1.3	SuperFonts	3.1
DeskTools	3.1	Outliner*	1.2.2	SuperForms	1.0.3
DeskTools II	2.0	Point-to-Point*	4.1.2	TeleComm	1.2
FileMaster	3.0	PowerPack	2.0	TextTools	1.3.1
Graph	3.1	QuickSpell	3.0.1	Thesaurus	2.0
GS Font Editor*	1.2	ReportWriter	2.5.2	UltraMacros	3.1
MacroEase	1.0	SideSpread	3.0		
MacroTools	2.3	SpreadTools	2.1		

*Not a TimeOut module – Get updates from Beagle.

Figure 2: Module Version Numbers — July 1991

On Multiple Disks		Graph		SuperFonts	
TO.UTILITIES	3.0.2	TO.GRAPH	3.1	TO.SUPERFONTS	3.0
TO.CLIPBOARD	2.0	MacroEase		TO.PICKFONTS	1.0
TO.PAINT	2.1	TO.DEBUG	3.0	SuperForms	
TO.WORD.COUNT	2.0	TO.EASY.LAUNCH	1.0	TO.SUPERFORMS	1.1
Companion		TO.PRIMER.REF	3.1	TeleComm	
TO.TEXTLOADER	2.0	TO.REFERENCE	3.0	TO.TELECOMM	1.2
TO.PATHOLOGIST	1.2	TO.STATUS	3.0	TextTools	
TO.PATHMAN	1.1	TO.ULTRALOCK	3.0	TO.ANALYST	1.2
DeskTools		PowerPack		TO.COPYBLOCK	1.1
TO.CALENDAR	3.2	TO.ASCII	1.1	TO.GLOSSARY	1.1
TO.CALCULATOR	1.0	TO.AWP.TO.TXT	3.0	TO.INDEXER	1.2
TO.CASE CONVERT	2.0	TO.DB.SEARCH	3.0	TO.MARKMERGE	1.2
TO.ENCRYPTER	2.0	TO.DESK.SORTER	3.0	TO.MULTIPRINT	1.1
TO.CLOCK	1.1	TO.HELPSCREENS	3.0	TO.QUICKSTYLES	1.1
TO.DIALER	1.1	TO.LIBRARIAN	3.0	TO.QUICKTABS	1.1
TO.ENVELOPE.ADR	2.0	TO.LINESORTER	3.0	TO.STRIPPER	1.1
TO.NOTEPAD	2.0	TO.SELECTOR	3.0	TO.SUPERFIND	1.2
TO.PAGE.PREVIEW	1.0	TO.TRIPLE.CLIP	3.0	TO.TOC	1.1
TO.PUZZLE	1.1	TO.TRIPLE.DESK	3.0	Thesaurus	
DeskTools II		QuickSpell		TO.THESAURUS	2.0
TO.FILE.SEARCH	3.0	TO.QUICKSPELL	3.0.1	UltraMacros	
TO.DIRECTREE	2.0	ReportWriter		TO.COMPIILER	3.1
TO.CLIP.VIEWER	2.0	TO.REPORTWRITER	2.52	TO.MACRO.OPT	3.1
TO.AREACODE	2.0	SideSpread		TO.HELP.V2.0	3.0
TO.CALC.PLUS	2.0	TO.SIDESPREAD	3.0	TO.HELP.V3.0	3.0
TO.DISK.TESTER	1.0	SpreadTools			
TO.MEASURE	2.0	TO.ANALYZER	2.0		
TO.PM.IMAGE	2.0	TO.CELLINK	1.2		
TO.SCREENOUT	1.0	TO.BLOCKCOPY	2.0		
TO.SCREENPRINT	1.0	TO.QUICKCOL	2.0		
TO.STOPWATCH	2.0	TO.COPYRC	2.0		
FileMaster		TO.FRM2VAL	2.0		
TO.FILEMASTER	3.0				

Bruce Shanker, 1279 Boyd Road, Warminster, Pennsylvania 18974-2260.

Joe Connelly, 32148 Camborne Lane, Livonia, Michigan 49154.

Pete Ross, 35026 Currier, Wayne, MI 48184-2348.

Figure 3: JEM Software — July 1991

Product	Version	Product	Version
DoubleData*	2.0	Mr. Invoice	1.2
FlexiCal	1.3	SpellCopy	2.3
PathFinder	3.0	MiniPaint	1.1
I.O. Silver	1.0	TotalControl	1.0

*Upgrades only from JEM - \$10.

Jim Emig, 4535 S.E. Kelly St., Portland, OR 97206.

John Carson, 215 Cedar Avenue, Rosemere, Quebec, J7A 2W5, Canada.

ProSel-16

NAUG's Beagle Buddies also provide updates to ProSel-16, Glen Bredon's popular Apple IIGs program selector and disk utility program. ProSel-16's utilities offer incremental backup and restore with error correction and compression, a fast hard disk optimizer, and powerful file utility programs.

Recent versions of ProSel-16 come with a completely indexed, 148-page printed manual. The software includes an appointment calendar, a programmable scientific calculator with function and surface plotter, a file finder, a powerful text editor, and automatic virus detection and protection. Version 8.70 of ProSel-16 is current and supports device letters and line feeds after carriage returns.

ProSel-16 lists for \$89.95 and is available from discount mail order dealers. Updates with a disk and printed manual cost \$25 (\$26.50 Canadian). Updates without a manual cost \$10 (\$11.50 Canadian). Update through any of NAUG's Beagle Buddies; send your original disk and a check made payable to the Beagle Buddy of your choice (not to NAUG) with your update order.

JEM Software

Figure 3 lists the current version number of all JEM Software products. Bruce Shanker provides updates for all JEM products except DoubleData. JEM update prices through Mr. Shanker are \$1 per disk more than the cost for Beagle disks. Send your original disks and payment directly to Mr. Shanker.

DoubleData updates cost \$10 directly from JEM Software. Send your original DoubleData disk and payment to JEM Software, 7578 Lamar Court, Arvada, Colorado 80003.

Additions to Apple II Vendors List

Please add the following companies to the list of Apple II mail order dealers that appeared on pages 33-35 of the June 1991 issue of the *AppleWorks Forum*.

Impact Printhead Services Hardware

8701 Cross Park Dr.
Suite 101
Austin, Texas 78754-9970
Orders: 800-777-4323
Fax: 512-832-9321

Learning Experiences

Discount Hardware and Repairs
P.O. Box 1537
New Milford, Connecticut 06776
Orders: 203-354-3669
Fax: 203-355-1900

Martek Electronics

Hardware
Box 24
Novi, Michigan 48376
Orders: 313-348-3812

Silicon Express

Discount Hardware and Software
1760 Dividend Drive
Columbus, Ohio 43228
Orders: 800-999-6868

Versacad Corporation

Software Developer
2124 Main Street
Huntington Beach, California 92648
Orders: 714-960-7720

CDA Computer Sales no longer sells Apple II products; please delete that company from the vendor list that appeared in the June 1991 issue of the *AppleWorks Forum*.

Help with AppleWorks Utilities

by Nanette Luoma

How to Use this List

To the left of each volunteer's name are numbers indicating the utilities the consultant supports.

Volunteers are listed alphabetically by state.

1 = ProDOS	4 = Disk/File Recovery
2 = File Conversion	5 = ProSel
3 = Copy II+	6 = EasyDrive

	City	Home	Work
Arizona			
3	Clay Evitts	Tucson	602-885-9789 602-296-5491

California			
1	Dan Balsley	San Ramon	415-829-5085
3	Brian Blue	Danville	415-838-0997 415-954-6002
1-5	James Davis	Hayward	415-489-7024
3	Don Farrar	Pleasant Hill	415-932-5509
1,5	David Gair	Los Angeles	213-469-9916 213-469-9916
1-5	Terry Higgins	Newark	415-745-7884 415-593-2500
1	Alan E. Kahn	San Anselmo	415-457-9827
3	Wayne Kilman	Santa Barbara	805-967-3620
3,5	Will Nelken	San Rafael	415-459-0845 415-456-1795
5	Jesus Orosco	Milpitas	408-270-1011 408-945-4344

Colorado			
3	Geoff Hollingsworth	Morrison	303-697-9277
2,3	John Lefebvre	Thornton	303-451-5558 303-457-2852
1,3	John Loren	Littleton	303-978-0603
1-5	Stephen Reiss	Aspen	303-923-6172 303-923-6172
1	Dr. Larry Thaete	Boulder	303-939-9072 303-492-2717

Connecticut			
5	Martin Knight	Middletown	203-346-9698 203-347-8594
1,3,5	Newton Shaffer	Gales Ferry	203-464-9716

Delaware			
3	W. Henry Linton, Jr.	Wilmington	302-478-3740

Florida			
1,3,4	H. Clay Bailey III	Jacksonville	904-744-2499 904-725-3477
3	Robert J. Booz	Port Richey	813-868-1802
3	Ronald Stankiewicz	Patrick AFB	407-494-2227
1-6	Jeff Strichard	Ft. Lauderdale	305-587-9590
1-5	Mike Ungerman	Oviedo	407-366-0060 407-366-0156

Illinois			
1-3	William Davis	Hinsdale	312-655-9142 312-887-1730
1-3	George Duffey	Bloomington	708-894-0849 708-451-3106

Indiana			
3	Jack Countryman	Greensburg	812-663-4998
3	Kevin Gold	Indianapolis	317-290-8948 317-543-7098
3	Laura J. Kelley	Gwynneville	317-763-7290

Iowa			
1,3	Keith King	Ft. Madison	319-372-9521
1,3,5	Stephen May	Audubon	712-563-2925 712-563-4217

	City	Home	Work
Kentucky			
2	Donald L. Corson	Louisville	812-256-3517 502-473-3083
1,5	Dan Crutcher	Louisville	502-895-1476 502-895-2720

Louisiana			
1-3	Charles Fryling, Jr.	Baton Rouge	504-766-3120 504-388-1473

Maryland			
3	Raymond Greenberg	Darnestown	301-330-4912 301-353-4959
3	Ben Maser	Owings Mills	301-252-7884 301-887-0717
5	Anthony R. Mattern	Rising Sun	301-658-4799 301-658-5535
1-5	Ray L. Settle	Arnold	301-647-9192 301-887-0106
1,3	Woodrow Webster	Fallston	301-879-7034 301-887-0171

Massachusetts			
1,3	Donald McCabe	Westport	401-294-6256 508-636-2611

Michigan			
3	Jim Anker	Auburn Hills	313-391-0033 313-544-5344
1-3,6	Michael McMinn	Swartz Creek	313-655-4442 313-232-6541
1-5	Pete Ross	Wayne	313-728-8269
3	Deborah Williams	Grosse Ile	313-671-0267 313-675-1550

Minnesota			
1-5	James Hirsch	Coon Rapids	612-421-8393 612-422-5572
3	David Ernest Johnson	Minneapolis	612-824-2728 612-824-2728
3	Dick Kenfield	Hopkins	612-938-4382
3	Peter Zambino	St. Paul	612-690-0536 612-489-1459

Missouri			
1-4	Bob Suits	Columbia	314-445-6082

Montana			
1-3	Steve Bernbaum	Sheperd	406-373-6393

Nebraska			
5	Jim Corbin	Bellevue	402-291-7285 402-331-7312
1-4	Kevin Garvin	Dixon	402-584-2271 402-584-2271
1-4	Dr. John W. Kelley	Omaha	402-397-3485
1-5	Larry B. McEwen	Hastings	402-463-2267 402-461-7550

Nevada			
1,3	Keith Johnson	Sparks	702-626-2543 702-784-4812

New Hampshire			
3	Phil Kirkpatrick	Keene	603-352-0640

New Jersey			
3	Mitch Bernstein	Medford	609-654-1356
2,3	Pete Crosta	Nutley	201-667-6369 201-677-4050
1-5	Jay Hubschman	Fairfield	201-575-1968 201-624-8046
3	Link Keur	Augusta	201-875-2568 201-992-7000
1-5	David Scott	Wall	201-531-0600 201-681-0600

New Mexico			
3,5	Willis George, Jr.	Albuquerque	505-897-4886 505-883-9743
3	David Selwyn	Las Cruces	505-522-7622
1,2,5	Gary Young	Corrales	505-897-1770 505-897-1770

New York			
3	Bob Beer	Coram	516-928-6870
1-3	Linda Doscher	West Nyack	914-358-7064
3	David W. Gagnon	Gowanda	716-532-4870
1,3	Carlos M. Madan	Morrisville	518-562-0779 518-359-3322
3,5	Larry Merow	Sayville	516-567-0603 516-422-0315

AppleWorks Utilities ...

		City	Home	Work
1-4	James L. Nicoll	Pittsford	716-381-9480	716-546-6732
1-4	Terry Williamson	Orchard Park	716-662-5104	716-873-9750

North Carolina

5	Marc Apfelstadt	Greensboro	919-282-1494	919-334-5970
---	-----------------	------------	--------------	--------------

Ohio

1-5	Jason Chao	Cleveland Hts.	216-321-5451	216-844-3791
3,5	Don E. Fisher	Dayton	513-890-0428	513-461-2444
1,3,4	Jason Fogt	Lakeview	513-843-5779	
1,3	Carman Greco	St. Clairsville	614-695-5026	
3,5	Ltc. Robert Weis	Beavercreek	513-429-4169	513-257-6836

Oregon

1-5	Jim Emig	Portland	503-771-1916	503-280-5666
1,3,6	M.W. Fox	Corvallis	503-754-7623	503-737-3628
3,6	Norma Gradwohl	Brownsville	503-466-5668	503-466-5668
1	Dave Lomax	Lake Oswego	503-636-7289	
5	Richard Millus	Medford	503-772-9787	

Pennsylvania

1,3,4	Claude Davis, Jr.	Stewartstown	717-993-6874	717-845-3571
1-4	Martin Friedman	Broomall	215-353-2753	
5	William D. Hall	Philadelphia	215-824-1160	215-441-0800
1	Rivka Rosenkrantz	Philadelphia	215-464-4725	215-493-1800
3	Charles R. Schultes Jr.	Lehigh	215-377-5169	215-377-6180
1-4,6	Bruce Shanker	Warminster	215-674-0118	
5	Hal Shapiro	Eagleville	215-630-8936	215-922-0500

Tennessee

1,3	Jerry Bruce	Bristol	615-652-7473	703-676-2999
1-3	Bob Evridge	Knoxville	615-693-8817	615-693-9242
3	Joel Goldman	Nashville	615-352-3617	

Texas

3,5	Larry Jones	El Paso	915-533-3302	915-565-3016
1,3-5	Joseph Kline	Lubbock	806-796-0829	
1-5	Ramon Merlin	San Antonio	512-496-5331	
1-5	Bud Simrin	Fort Worth	817-246-0859	
3,5,6	Rev. Jerry Don Venable	Liberty	409-336-3178	409-336-6958

Vermont

1,5	Douglas C. Corey	Middlebury	802-388-6209	802-388-4021
3	Linda Metzke	Concord	802-748-3298	802-626-9371

Virginia

1-4	Peter Pfeiffer	Herndon	703-437-1985	703-834-3618
-----	----------------	---------	--------------	--------------

Wisconsin

1,3,5	Peter Lee	Milwaukee		414-229-6660
-------	-----------	-----------	--	--------------

Australia

1-3,5	D.E. Bruce	Caringbah	2 527 4731	2 524 3859
	Ralph Morgan	Tweed Heads	075-246811	

Belgium

3	John G. Bishop	Casteau	65 72 82 35	65 44 49 49
---	----------------	---------	-------------	-------------

Canada

1,3,6	Michael Beebe	Victoria	604-477-4630	604-721-7954
1,3	Patrick M. Duffy	Lethbridge	403-329-4211	
1-4	Brian Elston	Bowmanville	416-436-2510	416-484-2600
2,4	Jim Low	Toronto	416-690-3943	416-690-3943
1,3,5	Jean Guy Mariage	Montreal	514-844-2932	514-252-2541
1,3	Terry Price	Schomberg	416-939-8104	
1,3,5	Robert Sutherland	Toronto	416-465-2945	
1-5	Nick W. Van Helsdingen	Tranquillity Base	604-296-3260	

England

1,3,5	Terry Cymbalisty	Leeds	0532 525038	
3	Andrew C. Letchford	Plymouth	0752 766435	752 766435
1,3,5	John Richey	Surrey	252 723993	71 409 0092

France

7	Henry H. Marsh	Fontgny AuxRoses		(4)3.50.27.45
---	----------------	------------------	--	---------------

Israel

1,3	Bernard Katz	Ramat Aviv	425-011	752-1133
-----	--------------	------------	---------	----------

Saudi Arabia

1-4	Ken Burnell	Dhahran	9663878-9173	9663875-0051
-----	-------------	---------	--------------	--------------

Switzerland

1-5	Charles Kubler	Volketswig	01-945-5873	
-----	----------------	------------	-------------	--

Venezuela

1-3	Omar Quintero	Caracas	02-241-1366	02-291-2526
-----	---------------	---------	-------------	-------------

Electronic Index Disk August 1991 Update.

Enter the default values for these categories: Volume #: 6 • Issue #: 8 • Date: Aug 91.

Enter the rest of the data in the following order: Type • Page • Title • Author • Keywords

From the Editors • 2 • Happy Anniversary • Merritt, Cathleen • NAUG; AppleWorks Forum
Letters to NAUG • 2 • Solving Clock Card Problems • Miller, Harold • clock cards; Z-RAM; memory
cards; Slide-On Battery; Apple IIgs

Letters to NAUG • 3 • Resolving ImageWriter Problems • Foss, Lollie • ImageWriter; printers; printing

Letters to NAUG • 3 • Can Repairs Cause a Problem? • Cox, Doak • repairs; Apple IIe

Letters to NAUG • 4 • More ImageWriter Solutions • Steinert, Eric • ImageWriter; printers; printing

Letters to NAUG • 4 • Checkbook for AppleWorks 1.x or 2.x • Esquerre, Norelyn • AppleWorks; checkbooks; finance

Letters to NAUG • 4 • How to Delete Return "Blots" • Barnard, Alfred • word processor; bugs; formatting

Data Base Tip • 5 • How to Produce Attractive Data Base Reports • Williams, Warren; Bernstein, Mitchell • data base; report formats; Mail Merge; printing

Hardware Review • 8 • Epson EPL-7000: Laser Output on a Budget • Gum, Douglas • Epson; laser printers; hardware

Hardware Review • 10 • EPL-7000 Settings that Work • Gum, Douglas • Epson; laser printers; hardware; communications

Hardware Review • 11 • How to Share the Printer • Gum, Douglas • Epson; laser printers; hardware; networks; communications

From the Editor • 12 • How to Avoid Problems Patching AppleWorks • Merritt, Cathleen • patches; BASIC

AppleWorks News • 12 • News for AppleWorks Users • N/A • Apple Computer; Beagle Bros; Black Box Corporation

Spreadsheet Tip • 13 • How to Accumulate Data in a Cell • Merritt, Cathleen • spreadsheet; formulas

My Favorite Template • 14 • Shopping List Template is a Real Time-Saver • Hecker, Stan • data base; templates

Word Processor Tips • 17 • More Envelope Tips • Hamilton, Lorne • printing; word processor; templates; macros; envelopes

Inside AppleWorks • 19 • Understanding SEG.PR - Part 1 • Link, John • SEG.PR; printing; Lissner; printer codes

Inside AppleWorks • 20 • More about Printer Drivers • Link, John • SEG.PR; printing; Lissner; printer codes

Inside AppleWorks • 21 • AppleWorks Resets Your Printer • Link, John • SEG.PR; printing; Lissner; printer codes

Inside AppleWorks • 21 • More about the Quit Code • Link, John • SEG.PR; printing; Lissner; printer codes; ProDOS

Bulletin Board News • BBS Update • N/A • Electronic Forum; BBS

Special Offers • 22 • Special Offers for NAUG Members • N/A • ActaSoft; inCider

My Favorite Macro • 24 • A Two-File Switcher • Johnson, Keith • macros; UltraMacros; files

AppleWorks News • 27 • News and Special Offers • N/A • Data Base User Group; FantasyWorks; JEM Software; Macmillan Computer Publishing; OmniShore; Timeworks; Publish-It!

Public Domain Updates • 30 • New disks in the NAUG Library • N/A • Clemesha's AppleWorks Accessories; Computer Dictionary Disk; File Card Construction Kit; Fun with AppleWorks; SuperFonts Demo

Corrections • 31 • Corrections to the AppleWorks Forum • N/A • corrections

NAUG News • 32 • Beagle Buddy Update • N/A • Beagle Bros; Beagle Buddy; JEM Software; updates; upgrades; ProSel

General Interest • 33 • Apple II Vendors List Update • N/A • dealers; mail order

Members Helping Members • 34 • Help with AppleWorks Utilities • Luoma, Nanette • ProDOS; File Conversion; Copy II+; disk recovery; file recovery; ProSel; EasyDrive; Members Helping Members

New Words: Black Box Corporation; Macmillan Computer Publishing; OmniShore; Timeworks; Clemesha's AppleWorks Accessories; Computer Dictionary Disk; File Card Construction Kit; Fun with AppleWorks; SuperFonts Demo

NAUG Membership

Name _____

Member N^o, if renewing _____

Address _____

City _____ State _____

Zip _____ Country _____

Home Phone _____

Work Phone _____

The *AppleWorks Forum* — 12 monthly issues, shipped as follows:

	One Year	Two ¹ Years
Circle One:		
2nd Class postage - United States	\$31	\$62
2nd Class postage - Canada and Mexico	\$41	\$82
1st Class postage - United States	\$47	\$94
1st Class airmail - Canada and Mexico	\$52	\$104
Surface mail outside North America	\$44	\$88
Airmail outside North America	\$67	\$134
NAUG on Disk ²	\$90	\$180

Total Enclosed \$ _____

☐ Check ☐ MC/Visa ☐ PO # ³ _____

Credit Card Account # _____

Expiration Date _____

Signature _____

¹ Avoids future price increases.

² U.S. Price. Foreign orders by credit card only.

³ Payment must accompany all purchase orders.

NAUG shares members' addresses with other users groups and selected vendors. If you do not want to receive mail from these agencies, check here: ☐

AppleWorks is a trademark of Apple Computer,
under license to Claris Corporation.

Classified Ads

THE HISTORY OF 150+ AUTOMOBILE MANUFACTURERS, plus specs to 700+ automobiles on disk for AppleWorks 3.0 users. Send \$45.95 for nine volume History Guide, \$25.95 for five volume Spec Guide. Call or write for free demo disk. (408) 258-9350; Auto Epoch, 1601 Sundown Ln., San Jose, CA 95127-4558.

ADVANCED PRINTING CONCEPTS Laser Printing with enhanced resolution. Send us your Apple II data via disk, modem, or fax. Overnight and authorial services available! \$1 per page for basic service. Discounts for large quantities. For more information call (708) 215-8466. Send US mail to: Advanced Printing Concepts, PO Box 97, Wheeling IL 60090-9998. Please include \$2 for shipping and handling.

SERIAL PRINTER BUFFER: Practical Peripherals Microbuffer, 32K upgradeable to 256K. New in box. External buffer compatible with all serial printers. \$35. (313) 741-8700. Ask for Tom.

DAN'S MACRO CITY — Includes CHECKWORKS (\$10): Check-writing, checkbook management, all within AppleWorks; WORKHORSE (\$8): Add, Save, Remove, Delete macros; HANGMAN (\$7): You've played it on paper, but have you played it in AppleWorks?; ALARM (\$5): Full prompting, clock time or elapsed, task file; BOXDRAW (\$4): Dozen useful macros: Find, SavePlace, Phonebook, etc.; LINEPRINTER (\$3): Highlight, print selected text files; AGE (\$2): Calculate ages from birthdates. NAUG special price — all nine macro sets: \$19. All orders add \$1 s/h. All macros require AppleWorks 3.0, UltraMacros 3.1. Specify 3.5" or 5.25" disk. Full refund if not satisfied. Write: DAN'S MACRO CITY, c/o D. Crutcher, 322 Stilz Ave., Louisville KY, 40206. Phone: (502) 895-2720. Will write custom macros for reasonable fees.

APPLIED ENGINEERING RAMKEEPER — Lets you use your original IIGs Apple memory card with memory expansion cards from other vendors. Includes a battery backup. \$35. Satisfaction guaranteed or your money back. NAUG: (313) 454-1115.

Guidelines for Contributors

The *AppleWorks Forum* consists entirely of materials contributed by NAUG members. The *AppleWorks Forum* publishes three types of member contributions:

1. Letters: A letter, written to the Editor, that asks or answers a question, shares an idea, or makes a statement.
2. Notes: A note is a brief article or Quick Tip about a single theme.
3. Articles: Articles are generally five to ten double-spaced pages long. Members whose articles are published in the *AppleWorks Forum*, receive a one-year extension to their NAUG membership.

How to Submit Articles to the *AppleWorks Forum*

1. Send paper copies of letters.
2. If possible, send both paper and disk copies of notes and articles. If you do not submit a printed copy, please include a note describing what is on the disk. All submissions become the property of NAUG.
3. All submissions to the *AppleWorks Forum* should include your name, address, and telephone number. We will cite you as the author of the letter, note, or article, but will not include your address or telephone number unless you specifically request that those be published. The Editor will make any necessary editorial changes to your submission. Mail your submission to: Cathleen Merritt, Editor; *AppleWorks Forum*; Box 87453; Canton, MI 48187.

Apple-**Works** **F o r u m**

NAUG

National AppleWorks Users Group
Box 87453, Canton, Michigan 48187

(313) 454-1115

BBS after August 3: (615) 359-8238

**SECOND
CLASS**
Postage Paid
at Plymouth, MI
and other offices

TIME VALUE MATERIAL